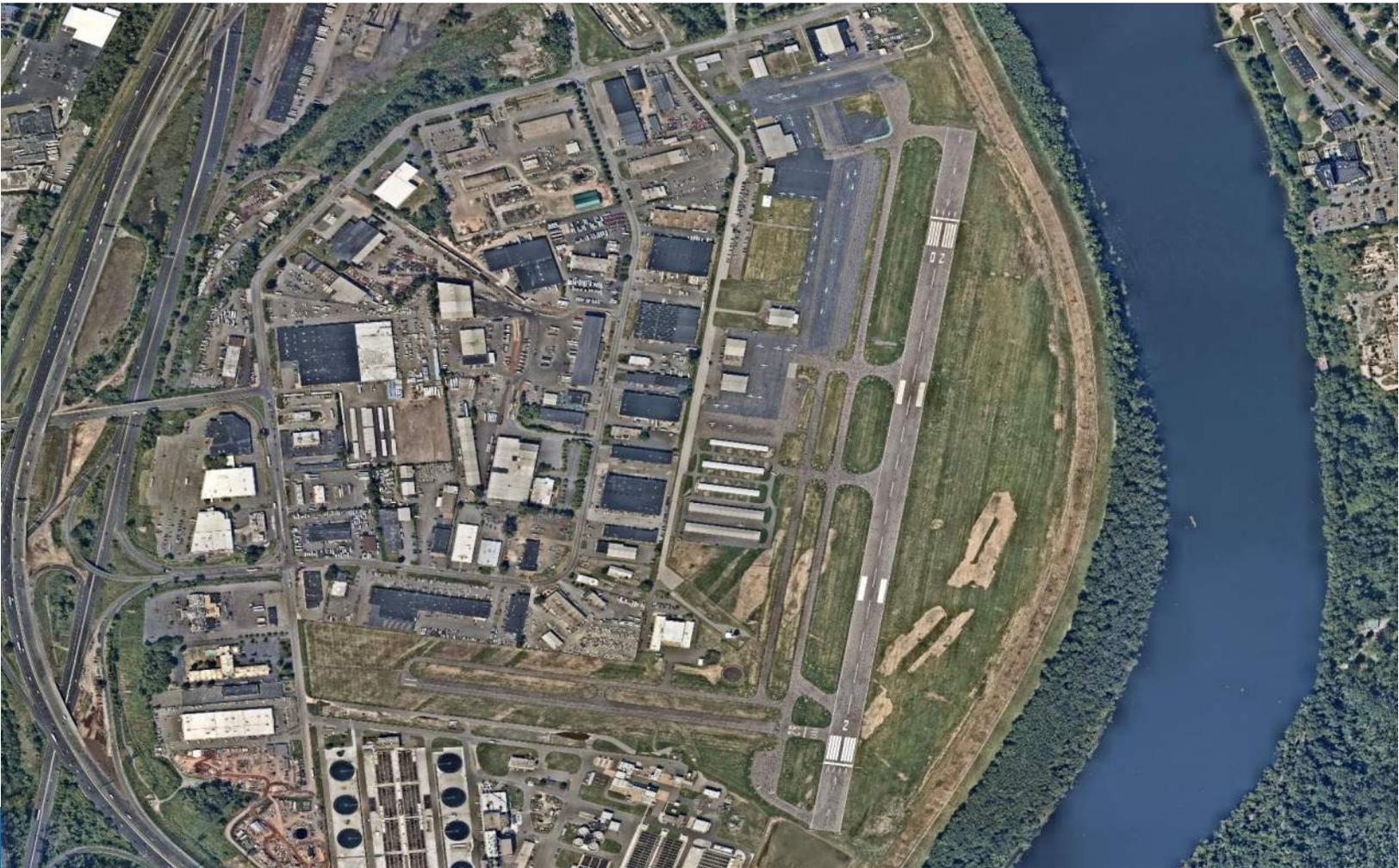


Appendix C

Phase 2-3 ESA Report



Hartford-Brainard Airport

233 Maxim Road & Lindbergh Drive
Hartford, CT

Phase II/III Environmental Site Assessment

Prepared for
BFJ Planning

Tighe & Bond

September 27, 2023

12-5182-001

September 27, 2023

Thomas Madden, AICP
Associate Principal
BFJ Planning
115 Fifth Avenue, 3rd Fl.
New York, NY 10003

Re: **Phase II/III Environmental Site Assessment**
Hartford-Brainard Airport
233 Maxim Road/Lindbergh Drive
Hartford, CT

Dear Mr. Madden:

Please find enclosed the Phase II/III Environmental Site Assessment (ESA) report for the Hartford-Brainard Airport property located at 233 Maxim Road/Lindbergh Drive in Hartford, Connecticut.

We appreciate the opportunity to provide our services. If you have any questions or comments, please reach out to Jim Olsen at (860) 704-4761 or JTolsen@tighebond.com.

Very truly yours,

TIGHE & BOND, INC.



Mark E. Paulsson
Project Environmental Scientist



James T. Olsen, PG, LEP
Vice President

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List of Acronyms and Definitions

AOC	Area of Environmental Concern
bgs	Below Ground Surface
CTDEEP	Connecticut Department of Energy & Environmental Protection
COC	Contaminant of Concern
CSM	Conceptual Site Model
DEC	Direct Exposure Criteria
DQA/DUE	Data Quality Assessment/Data Usability Evaluation
EUR	Environmental Use Restriction
ESA	Environmental Site Assessment
ETPH	Extractable Total Petroleum Hydrocarbons
ft	Feet
GIS	Geographic Information System
GWPC	Groundwater Protection Criteria
GWVC	Groundwater Volatilization Criteria
LEP	Licensed Environmental Professional
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
ug/L	Micrograms per Liter
PAHs	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PID	Photoionization Detector
PMC	Pollutant Mobility Criteria
ppm	Parts Per Million
RCP	Reasonable Confidence Protocol
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RSR	Remediation Standard Regulations
SCGD	Site Characterization Guidance Document
SPLP	Synthetic Precipitation Leaching Procedure
SVOCs	Semi-Volatile Organic Compounds
SWPC	Surface Water Protection Criteria
USGS	United States Geological Survey
VOCs	Volatile Organic Compounds

Section 1 Introduction

Tighe & Bond, Inc. (Tighe & Bond) has completed a Phase II/III Environmental Site Assessment (ESA) on behalf of BFJ Planning (the "Client") for the Hartford-Brainard Airport located at 233 Maxim Road/Lindbergh Drive in Hartford, Connecticut (the "Site"). The Site is comprised 200 acres of land, bounded by commercial/industrial properties to the north, south, and west. The Clark Dike, which is associated with the Connecticut River, abuts the Site to the east. The Site is currently leased by the State of Connecticut to several tenants predominantly for aircraft use. The Site was first developed as an airport in 1921. The location of the Site is shown in Figure 1, an orthophotograph of the Site is provided as Figure 2, and a site plan is provided as Figures 3, 3-1, and 3-2 (Appendix A).

This Phase II/III ESA report has been prepared to document Phase II/III ESA activities completed by Tighe & Bond between April and August 2023 as part of an assessment of the current and potential alternative uses of the Site. Phase II/III ESA activities by Tighe & Bond were completed in accordance with the CTDEEP Site Characterization Guidance Document (SCGD), dated September 2007 (revised December 2010) and under the direction of a CT Licensed Environmental Professional (LEP). This report contains all of the limitations inherent of SCGD methodologies in addition to those limitations presented in Appendix G of this report.

Section 2 Objectives

The purpose of the Phase II/III ESA was to collect sufficient information to evaluate potential environmental impacts at the Site as part of the assessment of the current and potential alternative uses of the Site. The Phase II/III ESA was completed with the following objectives:

Phase II ESA – to determine whether or not a release has occurred in connection with Recognized Environmental Conditions (RECs) and/or Areas of Concern (AOCs) identified during the completion of Tighe & Bond’s April 21, 2023 Phase I ESA for the Site. A release is considered to have occurred if concentrations of constituent of concern (COCs) are detected above the analytical reporting limit unless such detections can be shown to be attributable solely to naturally occurring or background conditions. Further, determination as to whether the release exceeded regulatory criteria was made. Given the acreage of the Site, limited details regarding the locations of certain historical environmental concerns, restricted access inside hangars/buildings, and utility conflicts, certain RECs/AOCs were investigated by indirect means (e.g., downgradient soil and groundwater sampling). In addition, a few RECs/AOCs were not investigated due to utility conflicts and being located off-Site. As such, a complete Phase II ESA in accordance with the SCGD was not possible (see Section 10.4).

Phase III ESA – to characterize the nature, degree, and three-dimensional extent of the impact from each identified release, including if that release exceeded regulatory criteria. Given the scope of the project, a full Phase III ESA investigation of the Site was not completed, as noted throughout this report.

Although limitations were identified, the data obtained during the Phase II/III ESA was sufficient to assess the environmental condition of the Site and for preliminary remediation planning as part of the evaluation of current and potential alternative uses of the Site.

Section 3 Site Description & Environmental Setting

3.1 Site Description

The Site consists of one parcel identified by the City Hartford Tax Assessor as Map 333/Block 77/Lot 003 with an address of 233 Maxim Road/Lindbergh Drive in Hartford, CT. The Site is also associated with the addresses of 251 Maxim Road, 233-299 Maxim Road, and Lindbergh Drive. The Site is approximately 200-acres in size and currently owned by the State of Connecticut Airport Division – Aeronautics. The Site and surrounding area is zoned as “ID-1” for industrial use but overlays the Connecticut River District “CT R”.

The Site limits are generally defined by Maxim Road to the north; Lindbergh Drive, Brainard Road, and industrial/commercial properties to the west, the Metropolitan District Commission (MDC) wastewater treatment plant property to the south, and the Clark Dike to the east.

The Site is currently improved with 20 structures located along the northern and western property boundaries. The airport structures generally consist of maintenance garages, the Federal Aviation Authority (FAA) control tower, various offices, classrooms, and two fuel farms. Each structure is surrounded by paved parking/tarmacs and vehicle access or turf areas. The main helicopter pad is located east of building H1 (20 Lindbergh Drive). A smaller helicopter pad is located east of building H4. The Site includes three aircraft runways identified as 2-20, runway 11-29, and a turf runway. Each runway is surrounded by turf and limited paved access roadways/taxiways. A chain-link fence encompasses the entire Site at the property boundaries.

3.2 Site History

The Site was historically utilized as cow pasture prior to development as the Hartford-Brainard Airport in 1921. The Site, known as Brainard Field, was dedicated as the first municipal “flying field” in New England. The Site is historically known as the first landing spot after Charles Lindbergh’s first transatlantic flight. The Connecticut National Guard also utilized the Site for pilot training from 1923 until post World War II.

Historically, the Site has been prone to severe flooding due to the proximity of the Connecticut River. Following significant flooding in 1936 and 1938, the US Army Corps of Engineers constructed the Clark Dike that abuts the eastern property boundary to prevent future events.

3.2.1 Past Activities

During the Site’s operation as an airport, various airport and aircraft maintenance operations were completed, predominantly out of past and present hangars and other maintenance buildings. Former underground storage tanks (USTs), current/former aboveground storage tanks (ASTs), as well as drums/containers containing petroleum products or other hazardous substances are utilized as part of these activities. Releases associated with airport related activities, including from tanks have been previously identified.

3.3 Site Regulatory Status

An "Establishment" is defined as any real property at which or any business operation from which (A) on or after November 19, 1980, there was generated, except as the result of (i) remediation of polluted soil, groundwater or sediment, or (ii) the removal or abatement of building materials, more than one hundred kilograms of hazardous waste in any one month, (B) hazardous waste generated at a different location was recycled, reclaimed, reused, stored, handled, treated, transported or disposed of, (C) the process of dry cleaning was conducted on or after May 1, 1967, (D) furniture stripping was conducted on or after May 1, 1967, or (E) a vehicle body repair facility was located on or after May 1, 1967.

The Site appears to meet the definition of an "Establishment" due to multiple generations of hazardous waste (EPA waste code D001 for Ignitable Waste) over 100 Kg in one month and the identification of vehicle (aircraft) body repair facilities. However, Tighe & Bond recommends that legal counsel be consulted for a definitive determination if the Transfer Act is applicable to the Site.

3.4 Site Environmental Setting

3.4.1 Surficial Geology

According to the Surficial Materials Map of Connecticut (U.S. Geological Survey, 1992), the Site is underlain by alluvium overlying fines. Alluvium is characterized as a floodplain material of which areas along large river systems, like the Connecticut River, can be upwards of 25 feet thick. Previous investigations indicate that subsurface soils consist of reddish-brown sand, gravel, and silt overlying greyish-brown/reddish-brown clay. Portions of the Site may also contain urban fill or dumped materials due to the historical industry in the area.

During the completion of Phase II/III ESA, a combination of brown fine to medium sand and silt of varying depths overlying a silt/clayey silt were generally observed throughout much of the Site. Urban debris consisting of asphalt, brick, and concrete were noted in several borings (see Appendix C for additional information).

3.4.2 Bedrock Geology

According to the Bedrock Geologic Map of Connecticut (U.S. Geological Survey, 1985), the Site is underlain by the Portland Arkose (JP) formation. The formation is characteristically reddish-brown arkose, also known as sandstone. Bedrock was not encountered in the top 20 feet of soil during all known Site investigation activities.

3.4.3 Groundwater Classification & Hydrogeology

Groundwater at the Site is classified by the CTDEEP Bureau Water Protection and Land Reuse as "GB". GB classified groundwaters are groundwater resources that are presumed to be degraded and not suitable for human consumption. The site is not located within an aquifer protection area. Based on topography of the Site and the proximity of the Connecticut River, which flows from north to south, shallow overburden groundwater was inferred to flow generally south to southeast towards the Connecticut River.

During the completion of Phase II/III investigation activities, groundwater was encountered between approximately 6.09 and 11.39-feet bgs during groundwater gauging events. Table 1 (Appendix B) includes a summary of groundwater gauging data. Based on the gauging data in combination with relative well elevation survey data (see Section 6.2), the shallow groundwater at the Site flows in a south/southwesterly direction. A shallow overburden groundwater contour map is provided as Figure 5.

3.4.4 Surface Water Classification

The closest surface water body is the Connecticut River, that generally flows along the east/south property boundary on the opposite side of the Clark Dike. An unnamed pond is also approximately 400 feet north of the Site at 300 Maxim Road. The Connecticut River is classified by CTDEEP as Class "SB". CTDEEP indicates that Class SB designated uses are habitat for marine fish, aquatic life, and wildlife, commercial shellfish harvesting, recreation, industrial water supply, and navigation.

Based on groundwater flow direction, Folly Brook and Wethersfield Cove may also be downgradient waterbodies. Wethersfield Cove is also a Class SB waterbody. Folly Brook north of Wethersfield Cove is classified by the CTDEEP as Class "A". CTDEEP indicates that Class A designated uses are habitat for fish and other aquatic life and wildlife, potential drinking water supplies, recreation, navigation, and water supply for industry and agriculture.

Section 4 Previous Assessments

Tighe & Bond completed a Phase I ESA for the Site on April 21, 2023 that included a review of several previous environmental assessment reports, including:

- Hartford Brainard Airport Master Plan Study, Final Draft Technical Report, Hoyle, Tanner, & Associates, Inc., November 1986
- Connecticut Army National Guard, Underground Storage Tank Program, CONNDPW Project No. BI-2B-760, CONN Military Department Project No. MD-94-Z, Tank Removal Report, Brainard Field Armory, Hartford, Connecticut, December 1993
- Task 210 – Preliminary Site Evaluation Assessor’s Map 232, Block 3, Lot 1, 233 Maxim Road/Lindbergh Drive Ramp Reconstruction, Brainard Airport – Central Portion, Hartford, Connecticut, Storch Associates, May 1997
- Task 210 Subsurface Site Investigation Report, Brainard Airport Maintenance and ARFF Facility, Hartford, Connecticut, July 29, 2011
- Phase I Environmental Site Assessment, TRC Environmental Corporation, September 4, 2012
- UST Closure Letter Report, Zuvic, Carr, and Associates Consulting Engineers, May 16, 2019
- Various Hazardous Building Material Assessment reports

The information obtained from these reports was used, in part, to develop a preliminary Conceptual Site Model for the Site. Based on the findings of the Phase I ESA, Tighe & Bond identified 5 RECs and 23 AOCs for the Site. Off-site AOCs were also identified in the surrounding properties. The RECs/AOCs are listed below:

- REC-1: Historical Releases (throughout developed portions of the Site)
- AOC-1: Historical Hangar Operations (two locations)
- AOC-2/REC-2: Underground Storage Tanks (twenty-eight locations)
- AOC-3: Aboveground Storage Tanks (twelve locations)
- AOC-4: Former Hazardous Waste Storage Container
- AOC-5/REC-3: Former Fuel Distribution Boxes and Product Delivery Line
- AOC-6: Oil/Water Separators (eight locations)
- AOC-7: Airport Maintenance Facilities (three locations)
- AOC-8: Aircraft Maintenance and Repair Facilities (five locations)
- AOC-9: Aircraft Deicing
- AOC-10: Fuel Truck Parking (three locations)
- AOC-11: T-Hangar Buildings (five adjacent locations)
- AOC-12: CT Aero Tech School
- AOC-13/REC-4: Soil and Groundwater Impacts from Historical Airport Activities and/or Historical Fill Utilized at the Site
- AOC-14: Electrical Transformers (multiple locations)
- AOC-15: Diesel Generators (four locations)
- AOC-16: Dumpsters (seven locations)
- AOC-17: Main Regional Jet Fuel Supply Line

- AOC-18: Soil Pile
- AOC-19: Potential Surficial Impacts from Hazardous Building Materials (past and present building envelopes)
- AOC-20: Aqueous Film-Forming Foam (six locations)
- AOC-21/REC-5: Aircraft Accidents
- AOC-22: Former Police Firing Range
- AOC-23: Outfalls at Connecticut River (two locations)
- Off-Site AOC: Potentially Impacted Groundwater Migrating to the Site from Off-Site Sources

See Tighe & Bond's April 21, 2023 Phase I ESA for additional information.

This Phase II/III ESA was performed to provide a preliminary assessment of the above RECs/AOCs.

Section 5 Remediation Criteria

Connecticut's Remediation Standard Regulations (RSRs) provide detailed guidance and standards that may be used at any site to determine whether or not remediation of contamination is necessary to protect human health and the environment. Generally, the RSRs apply to any action taken to remediate polluted soil, surface water, or a groundwater plume at or emanating from a release area, provided the remedial action is required pursuant to Chapter 445 or 446k of the CGS, or Section 22a-208a(c)(2) of the CGS.

The RSRs are incorporated in Sections 22a-133k-1 through 22a-133k-3 of the RCSA, adopted January 1, 1996 and amended on June 27, 2013 and February 16, 2021. The RSRs contain criteria for the remediation of soil and groundwater. The plan for remediation of a polluted property must consider the criteria for both these environmental media. Factors that may affect the degree of remediation at a polluted site include the groundwater quality classification of the site, the land use of the site, and proximity of sensitive receptors to the contamination.

Under specific circumstances, an Environmental Use Restriction (EUR) (Section 22a-133q-1 through 22a-133q-9 of the RCSA) may be considered as an alternative to remediating contamination to a concentration that is consistent with specific criteria of the RSRs. The purpose of an EUR is to prevent certain types of uses of a property, or to limit or require specific activities on a contaminated property, or to minimize the risk of exposure to the pollutants. There are two types of EURs, an Environmental Land Use Restriction (ELUR) and a Notice of Activity and Use Limitation (NAUL). Both EURs are recorded on the municipal land records.

Below is a summary of soil and groundwater RSRs under RSCA Sections 22a-133k-1 through 22a-133k-3 that are applicable to the site.

5.1 Soil Remediation Criteria

The CTDEEP soil remediation criteria integrate two risk-based goals:

- Direct Exposure Criteria (DEC) to protect human health and the environment from risks associated with direct exposure (ingestion) to contaminated soil.
- Pollutant Mobility Criteria (PMC) to protect groundwater quality from contaminants that migrate or leach from the soil to groundwater.

Soils to which both criteria apply must be remediated to a level, which is equal to the more stringent criteria.

5.1.1 Direct Exposure Criteria

Specific numeric exposure criteria for a broad range of contaminants in soil have been established by the CTDEEP, based on exposure assumptions relative to incidental ingestion of and dermal contact with contaminants in soils. The DEC applies to accessible soil to a depth of 15 feet. The DEC for substances other than PCBs does not apply to inaccessible soil at a release area provided that, if such inaccessible soil is less than 15 feet below the ground surface, an EUR is in effect with respect to the subject release area. For PCBs, a maximum concentration of 10 milligrams per kilogram (mg/Kg) can remain in soils considered inaccessible. Inaccessible soil generally means polluted soil, which is the following:

- More than 4 feet below the ground surface;
- More than 2 feet below a paved surface comprised of a minimum of three inches of bituminous pavement or concrete;
- Beneath a paved surface comprised of a minimum of three inches of bituminous concrete or concrete polluted only with concentrations of semi-volatile substances or petroleum hydrocarbons, normal constituents of bituminous concrete, in excess of applicable DEC and metals concentrations that are less than two times the applicable DEC;
- Beneath an existing building;
- Beneath another permanent structure(s) approved by the CTDEEP Commissioner; or
- Buildings can be constructed and/or clean fill can be placed over contaminated soils rendering them inaccessible.

The CTDEEP has established two sets of DEC using exposure assumptions appropriate for residential land use (RES DEC) or for industrial and certain commercial land use (I/C DEC). In general, all sites are required to be remediated to the residential criteria. If the industrial/commercial land use criteria are applicable and used, an EUR notification is required in accordance with the RSRs. To provide flexibility in remedial planning, the soil data collected from the Site has been compared against the RES DEC and the I/C DEC.

5.1.2 Pollutant Mobility Criteria

The PMC that apply to remediation of a site depends on the groundwater classification of the site. The purpose of these criteria is to prevent contamination to groundwater in "GA" classified areas, and to prevent unacceptable further degradation to groundwater in "GB" classified areas.

The applicable PMC for the Site is the PMC for a "GB" classified area. The PMC generally applies to all soil within the unsaturated zone, which represents the soil located from the ground surface to the seasonal high-water table in "GB" classified areas. The criteria do not apply to environmentally isolated soils that are polluted with substances other than VOCs provided an EUR is recorded for the release area which ensures that such soils will not be exposed (unless approved in writing by the CTDEEP Commissioner). Environmentally isolated soils are defined as certain contaminated soils, which are above the seasonal high-water table, beneath an existing building and not a source of on-going contamination. An EUR must be recorded for the site, which ensures that such soils will not be exposed by building demolition or other activities. Buildings can be constructed over contaminated soils rendering them environmentally isolated.

Remediation based upon the listed PMC requires that a substance, other than an inorganic substance or PCB, in soil be remediated to at least that concentration at which the results of a mass analysis of soil for such substances does not exceed the PMC applicable to the groundwater classification (i.e., GB) of the area in which the soil is located (default PMC). An inorganic substance (metals) or PCBs in soil must be remediated to at least that concentration at which the analytical results of leachate produced from either the Toxicity Characteristic Leaching Procedure (TCLP) or the Synthetic Precipitation Leaching Procedure (SPLP) does not exceed the PMC applicable to the groundwater classification of the area in which the soil is located.

In addition, the RSRs provide an alternate method for compliance with the PMC. For polluted soils within a GB Groundwater area, a SPLP or TCLP concentration of a substance in soil may be remediated to ten-times the groundwater protection criteria provided that non-aqueous phase liquid (NAPL) is present in soils as defined in the calculation provided in the RSRs.

5.2 Groundwater Remediation Criteria

Groundwater remediation requirements are dependent upon the groundwater classification of the site. The objectives of these standards are the following:

- Protect and preserve groundwater in "GA" areas as a natural resource
- Protect existing use of groundwater regardless of the area's groundwater classification
- Prevent further degradation of groundwater quality
- Prevent degradation of surface water from discharges of impacted groundwater
- Protect human health and the environment.

Portions of the RSRs governing groundwater regulate remediation of groundwater based on each substance present within the plume and by each distinct plume of impact. Several factors influence the remediation goal at a given site, including background water quality, the groundwater classification, the proximity of nearby surface water, existing groundwater uses, and the presence of buildings and their usage. When assessing general groundwater remediation requirements, these factors must be considered.

Since the site is situated within a "GB" classified area, the following criteria apply to the site:

- Surface Water Protection Criteria (SWPC)
- Groundwater Volatilization Criteria (VC)

5.2.1 Surface Water Protection Criteria (SWPC)

The SWPC apply to all groundwater that discharges to a surface water; and therefore, applies to the site. The SWPC ensures that groundwater contamination resulting from on-site sources, which exceed background concentrations, is remediated to levels that adequately protect surface water quality. In general, compliance with the SWPC is achieved when the compound in groundwater directly upgradient from the discharge point emanating from a site is equal to or less than the SWPC established by the CTDEEP. Compliance with the SWPC can also be achieved when the 95% Upper Confidence Limit of the arithmetic mean of all sample results from a groundwater plume are equal or less than the established SWPC. Additionally, site-specific alternative SWPC can be established in accordance with the RSRs.

5.2.2 Groundwater Volatilization Criteria (GWVC)

The GWVC apply to all groundwater contaminated with a VOC within 15 feet of the ground surface or a building. According to the regulations, the VOC of concern will be remediated to a concentration that is equal to or less than the applicable residential volatilization criterion for groundwater. If groundwater contaminated with a VOC is below a building used solely for industrial or commercial activity, groundwater may be remediated such that the concentration of the substance is equal to or less than the applicable I/C GWVC in lieu of the RES GWVC for groundwater, provided that an EUR is in effect with respect to the parcel (or portion of the

parcel covered by the building). The EUR must also ensure that the parcel (or portion thereof beneath the building) will not be used for any residential purpose in the future and that future use is limited to industrial or commercial activity. To provide flexibility in remedial planning, the groundwater data collected from the Site has been compared against the RES GWVC and the I/C GWVC.

5.3 Additional Polluting Substances and Alternative Criteria

The RSRs, sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies, contain numeric cleanup standards for 88 substances. When a contaminant at a site is not one of the 88 substances listed in the RSRs, numeric criteria must be requested and approved by the Commissioner in order to complete cleanup at the site under the RSRs, unless background concentrations are met. In accordance with CGS Sections 22a-133k-2 through 133k-3, the Commissioner may approve the use of site-specific cleanup criteria for Additional Polluting Substances (APS) and certain Alternative Criteria for soil and groundwater. Criteria for the APSs detected at the Site that are listed in the data summary tables of this report were obtained from "Table 10: DEEP Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests, dated September 2018".

Section 6 Investigation Activities

Phase II/III ESA activities were conducted between April and August 2023 and included collection and analysis of subsurface and surface soil samples and groundwater. Investigation activities were conducted to determine whether releases occurred to the environment associated with the identified AOCs at the Site and in certain instances, to delineate the nature, degree, and extent of any identified release areas. Phase II/III ESA activities are summarized in the following sections. A summary of individual tasks completed by Tighe & Bond during the course of this investigation is provided below.

6.1 Pre-Drilling Activities

Prior to the start of subsurface investigation activities in 2023, Tighe & Bond prepared a Health & Safety Plan (HASP) that was used by all Tighe & Bond staff during the project.

Tighe & Bond coordinated the proposed work plan with the Connecticut Airport Authority (CAA), the Site operator. Based on discussions with the CAA, the proposed work plan was refined to limit the number of soil borings within asphalt-paved areas. In addition, no work was permitted within buildings and hangars as most of these spaces contained tenants. However, Tighe & Bond was later granted permission to advance hand soil borings within two tenants spaces within the northernmost T-Hangar.

Approximately one week prior to commencement of work, the drilling subcontractor completed the required Call-Before-You-Dig (CBYD). Given the history of the Site and presence of known utilities, Tighe & Bond also retained Underground Surveying, LLC (Underground Surveying) to pre-clear proposed soil boring and monitoring well locations. Based on Underground Surveying's findings, certain proposed locations were either moved away from utilities/anomalies or abandoned altogether, as summarized in Section 7.1.

6.2 Phase II Investigation Activities

Soil Borings

Between April 27 and May 22, 2023 Tighe & Bond supervised advancement of 133 soil borings (B-1 through B-10, B-13 through B-23, B-25 through B-45, B-49 through B-86, B-88 through 102, B-105 through B-127, B-129 through B-131, B-133, B-135 through B-138, and B-140 through B-146) and the installation of 24 groundwater monitoring wells (TMW-1 through TMW-21 and TMW-23 through TMW-25) at the Site using direct push drilling techniques. Drilling services were provided by Cisco Geotechnical LLC of Glastonbury, Connecticut.

At most soil boring and monitoring well locations, soil samples were collected continuously using a 2-inch diameter, 5-foot long MacroCore and direct push drilling techniques. At four soil boring locations within the northernmost T-Hangar, soil samples were collected using a core-drill to drill through the concrete slab, followed by a manually driven 1.5-inch diameter, 2-foot long MacroCore sampler. Immediately upon opening, each acetate sleeve was screened in the field with a photoionization detector (PID) for the presence of measurable VOCs. Soils in each acetate sleeve were then evaluated for physical characteristics and inspected for visual and/or olfactory evidence of contamination. Observations for each boring were recorded on boring/well construction log forms included in Appendix C of this report.

Elevated PID readings and/or any visual or olfactory indications of contamination were used to guide the selection of soil samples for laboratory analysis. If no evidence of contamination was observed during boring advancement, a soil sample was collected from either the interval most likely to exhibit impacts based on the release mechanism for the AOC being evaluated or from the capillary fringe immediately above the observed groundwater table.

Soil samples from each boring location were collected, preserved in the field in laboratory-supplied sample containers, stored on ice, and transported under chain-of-custody protocol to a Connecticut-certified laboratory for select analyses. Additional information regarding the laboratory analysis is included in Sections 7 and 8.

Surface Soil Samples

Initial surficial soil sampling activities were completed between May 3 and June 20, 2023. Forty-nine surface soil samples (HA-1 through HA-11, HA-12A, HA-12B, HA-13 through HA-32, HA-34 through HA-36, HA-38 through HA-47, B-132, and B-134) were collected at locations across the Site during the investigation activities using hand sampling equipment that was decontaminated in-between sampling locations. Further, given the ubiquitous nature of per- and polyfluorinated substances (PFAS) and numerous potential sources of cross-contamination (e.g., consumer products), laboratory field sampling guidelines were followed that included use of appropriate clothing, field equipment (decontaminated with PFAS free water andalconox), and nitrile gloves and avoiding cosmetics, moisturizers, hand cream, sunscreen, insect repellants, or other related products the day of sampling. As part of the evaluation of leaching of potentially hazardous exterior building components (AOC 19), Tighe & Bond collected surface samples from along the exterior of the Site buildings, generally beneath materials that could contain PCBs (caulks, glazing, and seams) and painted surfaces that may consist of lead-based-paint.

Based on discussions with the CTDEEP, additional surficial soil sampling was completed on August 10, 2023. Twelve additional samples (HA-48 through HA-59) were collected across the Site to further evaluate potential PFAS, PAHs, ETPH, and metals impacts associated airborne deposition, fill materials, and/or other airport related releases.

All surface soil samples were collected, preserved in the field in laboratory-supplied sample containers, stored on ice, and transported under chain-of-custody protocol to a Connecticut-certified laboratory for select analyses. For the PFAS sample, a separate, decontaminated cooler was used. Additional information regarding the laboratory analysis of surface soil samples is included in Sections 7 and 8.

Groundwater Monitoring Well Installation and Sampling

Monitoring wells were installed under the supervision of Tighe & Bond. Each well was constructed with 10-feet of 1.5-inch diameter prepacked PVC well screen across the identified water table followed by solid PVC riser to grade. Each well borehole was backfilled with coarse sand to a depth above the top of well screen, followed by a bentonite seal to limit the potential vertical migration of water from the surface. Road boxes cemented in place were then installed. Well construction details are included in Table 1 (Appendix B) and on the log forms included in Appendix C.

Following installation, each well was developed to remove fine-grained sediment that may have been disturbed during installation activities. The wells were then allowed to stabilize prior to sampling.

Between June 1 and June 7, 2023, Tighe & Bond collected groundwater samples from each of the 24 groundwater monitoring wells installed during the Phase II/III ESA as well as from two existing monitoring wells (MW-1 and MW-2) and an oil/water separator observation well (OW-1) that were identified during the Phase I ESA. Groundwater samples were collected using low-flow sampling techniques. A handheld multiparameter instrument equipped with a flow-through cell was used to field measure the following parameters: pH, oxidation/reduction potential (ORP), conductivity, temperature, and dissolved oxygen. A turbidimeter was used to measure turbidity in the groundwater samples prior to the flow-through cell. Several monitoring wells (TMW-3, TMW-6, TMW-15, TMW-18, TMW-19, TMW-23, and TMW-25) were sampled as part of the evaluation of PFAS at the Site. These wells were sampled on June 1, 2023 using laboratory field sampling guidelines that also included the use of HDPE sample tubing. Groundwater sampling data sheets are provided in Appendix D of this report.

Groundwater samples were collected from each well, placed in preserved containers and submitted under chain-of-custody protocol to Connecticut-certified laboratory for select analyses. For the PFAS samples, a separate, decontaminated cooler was used. Additional information regarding the laboratory analysis is included in Sections 7 and 8.

Existing and newly installed monitoring wells were surveyed in place by Pereira Engineering, LLC on June 20, 2023. A round of groundwater monitoring well gauging was also completed at this time and the depth to water measurements used in connection with well elevation survey data to determine approximate shallow groundwater flow direction (see Section 3.4.3).

Section 7 Phase II/III ESA Results

A general discussion of soil and groundwater results by COC is provided below. Soil and groundwater analytical data on Tables 2 and Table 3, respectively. Sample locations are shown in Figures 4, 4-1, and 4-2. Copies of laboratory reports are included in Appendices E and F.

7.1 Soil

A total of 191 soil samples (including 13 duplicates) were collected from the Site and selectively analyzed for the COCs associated with the AOC(s) being investigated, including:

- ETPH by the CT Department of Public Health (CTDPH) method
- VOCs by EPA Method 8260
- 1,4-Dioxane by EPA Method 8260 or 8270
- SVOCs or PAHs by EPA Method 8270
- RSR metals, RCRA 8 metals, Arsenic, and/or Lead by EPA Method 6010
- PCBs by EPA Method 8082
- Pesticides by EPA Method 8081
- Herbicides by EPA Method 8151
- Per- and Polyfluorinated Substances (PFAS) by EPA Method 537M (CT List); and
- Glycol by EPA Method SW8015.

Based on initial results, certain, representative samples were additionally analyzed for barium, beryllium, chromium, copper, lead, mercury, nickel, vanadium, zinc, and pesticides using the SPLP method to evaluate leachability and compliance with the GB PMC. The following table summarizes the soil investigation, analysis, and rationale:

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS	
B-1	4-5'		TMW-1	REC-1 (1)	X	X												Evaluate residual impact from a release east of Hangar H1.
B-2	4-5'				X	X			X			X						
B-3	0-2'		TMW-2	AOC-1 (1)	X	X		X			X							Evaluate potential releases from historical hangar operations within the northern portion of the Site.
B-4	8-10'		TMW-3	AOC-1 (2) and AOC-2/REC-2 (9)	X	X		X			X							Evaluate releases associated with former underground storage tanks (USTs), including identified leaking USTs (LUSTs).
B-5	8-10'			AOC-2/REC-2 (1&2)	X	X			X		X							
B-6	8-10'				X	X												
B-7	8-10'				X	X												
B-8	8-10'			AOC-2/REC-2 (3) and AOC-1 (1)	X				X									
B-9	6-8'				X				X									
B-10	8-10'	DUP-1		AOC-2/REC-2 (4) and AOC-1 (1)	X	X		X			X			X				
B-11	N/A			AOC-2/REC-2 (5)	Not completed due to utility conflicts													
B-12	N/A				Not completed due to utility conflicts													
B-13	8-10'		TMW-4	AOC-2/REC-2 (6) and AOC-5/REC-3	X	X			X			X						
B-14	8-10'			AOC-2/REC-2 (6)	X	X												
B-15	8-10'			AOC-2/REC-2 (7)	X	X			X			X						
B-16	8-10'				X	X			X			X						
B-17	7-9'				X	X												
B-18	8-10'			AOC-2/REC-2 (8)	X				X									
B-19	13-15'		TMW-5	AOC-2/REC-2 (9), AOC-1 (2), AOC-2/REC-2 (12)	X	X			X									
B-20	6-8'	DUP-2		AOC-2/REC-2 (12), AOC-1 (2), and AOC-2/REC-2 (9)	X	X			X			X						

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²	
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS		Glycol
B-21	8-10'			AOC-2/REC-2 (12), AOC-1 (2), and AOC-2/REC-2 (9)	X	X			X			X							Evaluate releases associated with former USTs, including identified LUSTs. Sample B-36 (10-12') evaluated a current in-ground holding tank for the FBO Fuel Farm, AOC-3 (4).
B-22	8-10'			AOC-2 (13), AOC-1 (2), and AOC-2/REC-2 (9)	X	X			X			X							
B-23	8-10'					X													
B-24	N/A			AOC-2/REC-2 (14)	Not completed due to utility conflicts														
B-25	6-8'					X				X									
B-26	8-10'			AOC-2/REC-2 (15)	X	X			X			X							
B-27	10-12'					X	X			X			X						
B-28	10-12'					X	X												
B-29	8-10'			AOC-2/REC-2 (16)	X				X										
B-30	13-15'	DUP-4		AOC-2/REC-2 (17)	X	X			X			X							
B-31	12-14'					X	X												
B-32	10-12'					X	X			X			X						
B-33	10-12'					X	X												
B-34	10-12'			AOC-2/REC-2 (18)	X	X			X			X							
B-35	11-13'	DUP-6				X	X												
B-36	10-12'			AOC-2/REC-2 (19) and AOC-3 (4)	X	X			X			X							
B-37	10-12'			AOC-2/REC-2 (20)	X	X			X			X							
B-38	10-12'					X	X			X			X						
B-39	10-12'					X	X			X			X						
B-40	5-7'						X												

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²	
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS		Glycol
B-40	10-12'			AOC-2/REC-2 (20)	X				X			X						Evaluate releases associated with former USTs, including identified LUSTs.	
B-41	5-7'						X												
	10-12'				X				X			X							
B-42	8-10'				X	X			X			X							
B-43	6-8'		TMW-6	AOC-2/REC-2 (21)	X			X			X			X					
	13-15'						X												
B-44	3-5'	DUP-5		AOC-2/REC-2 (22), AOC-3 (6), and AOC-3 (7)		X	X		X					X					
	10-12'			AOC-2 (22)	X	X			X										
B-45	6-8'		X		X														
B-46	N/A				Not completed due to the presence of stored materials														
B-47	N/A				Not completed at proposed soil boring was determined to be outside Site boundary														
B-48	N/A				AOC-2/REC-2 (22) and AOC-16 (2)		Not completed due to utility conflicts												
B-49	10-12'			AOC-2/REC-2 (23)	X	X			X			X							
B-50	10-12'				X	X													
B-51	10-12'				X	X			X			X							
B-52	8-10'				X	X													
B-53	10-12'				X	X			X			X							
B-54	10-12'				X	X													
B-55	10-12'				X	X			X			X							
B-56	10-12'				X	X													

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²	
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS		Glycol
B-57	10-12'		TMW-7	AOC-2/REC-2 (24)	X	X			X			X							Evaluate releases associated with former USTs, including identified LUSTs.
B-58	8-10'				X	X			X			X							
B-59	10-12'	DUP-7			X	X			X			X							
B-60	10-12'				X	X													
B-61	10-12'			AOC-2/REC-2 (25)	X	X			X			X							
B-62	10-12'		TMW-8		X	X													
B-63	10-12'				X	X			X			X							
B-64	10-12'				X	X													
B-65	10-12'				X	X			X			X							
B-66	9-10'			AOC-2/REC-2 (26)	X	X			X			X							
B-67	7-9'	DUP-10			X	X													
B-68	8-10'				X	X			X			X							
B-69	8-10'				X	X			X			X							
B-70	8-10'				X	X			X			X							
B-71	8-10'			AOC-2/REC-2 (27)	X	X			X			X							
B-72	8-10'				X	X													
B-73	8-10'				X	X			X			X							
B-74	8-10'				X	X			X			X							
B-75	5-7'	DUP-11			X	X			X			X							
B-76	8-10'				X	X													

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²	
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS		Glycol
B-77	10-12'			AOC-2/REC-2 (28)	X	X			X			X							Evaluate releases associated with former USTs, including identified LUSTs.
B-78	9-10'				X	X													
B-79	11-12'				X	X			X			X							
B-80	10-11'				X	X			X			X							
B-81	10-11'				X	X													
B-82	1-3'			AOC-3 (1)	X	X		X			X			X				Evaluate potential releases from past and present aboveground storage tanks (ASTs).	
B-83	0.5-2.5			AOC-3 (3)	X	X		X			X			X					
B-84	0-2'		TMW-9	AOC-3 (4) and AOC-2/REC-2 (19)	X	X			X		X								
B-85	3-5'				X	X			X			X							
B-86	0-2'			AOC-3 (5)	X	X		X			X			X					
B-87	N/A			AOC-3 (6) and AOC-3 (7)	Not completed as sample B-44 (3-5') was collected from this location instead														
B-88	1-3'	DUP-8		AOC-3 (8)	X	X		X			X			X					
B-89	3-5'			AOC-3 (9) and AOC-6 (4)	X	X		X			X			X					
	8-10'				X	X		X			X			X					
B-90	0.5-2.5'			AOC-3 (9)	X	X		X			X			X					
B-91	3-5'			AOC-3 (10)	X	X													
B-92	2-4'			AOC-3 (12) and AOC-2/REC-2 (24)	X	X		X			X			X					
	8-10'				X	X			X			X							
B-93	1-2.5'			AOC-4, AOC-1 (1), AOC-3 (2), and AOC-16 (7)	X	X		X			X			X				Evaluate potential releases from a former hazardous waste storage container.	
B-94	3-5'		TMW-10	AOC-5/REC-3	X	X			X		X							Evaluate a release from former fuel distribution boxes and product delivery line.	

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²	
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS		Glycol
B-95	3-5'			AOC-5/REC-3	X	X			X			X							Evaluate a release from former fuel distribution boxes and product delivery line.
B-96	3-5'				X	X			X			X							
B-97	3-5'				X	X			X			X							
B-98	3-5'				X	X			X			X							
B-99	5-6'			AOC-6 (1) and AOC-1 (1)	X	X	X	X							X				Evaluate potential releases from oil/water separators.
B-100	8-10'			AOC-6 (2), AOC-1 (2), and AOC-2/REC-2 (9)	X	X	X	X						X					
B-101	8-10'			AOC-6 (4)	X	X	X	X						X					
B-102	8-10'			AOC-6 (5)	X	X	X	X						X					
B-103	N/A			AOC-6 (6)	Not completed due to utility conflicts														
B-104	N/A			AOC-6 (7)	Not completed due to utility conflicts														
B-105	3-5'	DUP-3		AOC-6 (8)	X	X	X	X											
B-106	2-4'			AOC-8 (2)	X	X		X			X			X					Evaluate potential releases from aircraft maintenance and repair facilities.
B-107	0.5-2.5'		TMW-11		X				X	X									
B-108	1-2'		TMW-12	AOC-8 (5)	X	X		X			X			X					
B-109	1-3'			AOC-9	X		X					X						X	Evaluate impacts associated with aircraft deicing activities.
B-110	3-5'				X		X					X						X	
B-111	2-4'				X		X					X							
B-112	0-2'			AOC-10 (1)	X	X			X			X							Evaluate potential releases at fuel truck parking locations.
B-113	2-4'				X	X			X			X							
B-114	0-2'				X	X			X			X							

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²		
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS		Glycol	
B-115	1-3'			AOC-10 (2)	X	X			X			X						Evaluate potential releases at fuel truck parking locations.		
B-116	1-3'				X	X			X			X								
B-117	0.25-2.25'			AOC-10 (3) and AOC-2/REC-2 (24)	X	X			X			X								
	8-10'				X	X			X			X								
B-118	0-2'			AOC-11	X	X			X	X				X	X			Evaluate potential releases associated with the maintenance and repair of aircraft at the T-Hangars.		
B-119	N/A		TMW-13		Well installation only ³															
B-120	0-2'				X	X			X	X										
B-121	9-10'				X	X								X	X					
B-122	0-2'				X	X			X	X										
B-123	0-2'				X	X			X	X				X	X					
B-124	0-2'				X															
B-125	0-2'	DUP-12			X	X			X	X				X	X					
B-126	N/A		TMW-14		Well installation only ³															
B-127	0-2'		TMW-15		AOC-12	X	X		X			X			X					Evaluate potential releases associated with the use and storage of hazardous substances and petroleum products at the CT Aero School, including at the Engine Test Building.
B-128	N/A					Not completed due to utility conflicts														
B-129	N/A		TMW-16	AOC-13-1/REC-4 and AOC-6 (6)	Well installation only ³													Evaluate soil and groundwater impacts from historical airport activities.		
B-130	N/A		TMW-17		Well installation only ³															
HA-1	0-0.5'			AOC-13-2/REC-4 and AOC-9	X	X			X			X	X		X	X				
HA-2	0-0.5'				X	X			X			X	X		X	X				
HA-3	0-0.5'				X	X	X		X			X	X		X					

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS	
HA-4	0-0.5'			AOC-13-2/REC-4 and AOC-9	X	X	X		X			X	X		X	X		Evaluate soil and groundwater impacts from historical airport activities.
HA-5	0-0.5'				X	X	X		X			X	X		X			
HA-6	0-0.5'				X	X						X	X		X	X		
HA-7	0-0.5'				X	X			X			X	X		X	X		
HA-8	0-0.5'				X	X						X	X		X	X		
HA-9	0-0.5'				X	X			X			X	X		X	X		
HA-10	0-0.5'				X	X						X	X		X	X		
HA-11	0-0.5'	DUP-13		AOC-14 (1)	X									X			Evaluate potential releases of dielectric fluids from pole- and pad-mounted transformers at the Site.	
HA-12A	0-0.5'			AOC-14 (2) and AOC-1 (1)	X									X				
HA-12B	0-0.5'				X										X			
HA-13	0-0.5'			AOC-14 (3)	X									X				
HA-14	0-0.5'			AOC-14 (4)	X									X				
HA-15	0-0.5'			AOC-14 (5)	X									X				
HA-16	0-0.5'			AOC-14 (6)	X									X				
HA-17	0-0.5'			AOC-14 (7)	X									X				
B-131	1-3'			AOC-15 (1)	X												Evaluate potential releases of diesel from generators at the Site.	
HA-18	0-0.5'			AOC-15 (2)	X													
HA-19	0-0.5'			AOC-15 (3)	X													
HA-20	0-0.5'			AOC-15 (4)	X													

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)													Primary Rationale ²	
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides	PFAS		Glycol
B-132 (Hand Sample)	0-2'			AOC-16 (1)	X	X			X										Evaluate potential releases from hazardous substances and petroleum products that may have been wrongfully discarded in dumpsters.
B-133	1-3'	DUP-9		AOC-16 (3)	X	X			X										
HA-21	0-0.5'			AOC-16 (4)	X	X			X										
B-134 (Hand Sample)	0-2'			AOC-16 (5)	X	X			X										
HA-22	0-0.5'			AOC-16 (6)	X	X			X										
HA-23	0-0.5'			AOC-16 (7) and AOC-1 (1)	X	X			X										
B-135	0-2'		TMW-18	AOC-17 and Off-Site	X	X			X	X				X				Evaluate potential releases from main regional jet fuel supply line that transects beneath the easternmost portions of the Site.	
B-136	N/A		TMW-19		Well installation only ³														
B-137	N/A		TMW-20		Well installation only ³														
HA-24	0-2'			AOC-18	X	X		X			X			X	X			Evaluate potential impacts associated with fill pile of unknown source. Several empty drums were observed that could be a source of impact.	
HA-25	0-2'				X	X		X			X								
HA-26	0-0.5'			AOC-19								X		X	X			Evaluate potential surficial impacts from the degradation of hazardous building materials on the exteriors of vintage Site structures, as well as the use of pesticides along structures.	
HA-27	0-0.5'														X				
HA-28	0-0.5'											X		X	X				
HA-29	0-0.5'											X		X					
HA-30	0-0.5'											X		X	X				
HA-31	0-0.5'											X		X	X				
HA-32	0-0.5'											X		X	X				
HA-33	N/A					No exposed soil for evaluation of surficial impacts from potential hazardous exterior building materials													

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)												Primary Rationale ²		
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides		PFAS	Glycol
HA-34	0.25-0.5'			AOC-19											X			Evaluate potential surficial impacts from the degradation of hazardous building materials on the exteriors of vintage Site structures, as well as the use of pesticides along structures.	
HA-35	0.25-0.5'															X			
HA-36	0-0.5'									X		X	X						
HA-37	N/A				No exposed soil for evaluation of surficial impacts from potential hazardous exterior building materials														
HA-38	0.25-0.5'													X					
HA-39	0-0.5'									X		X	X						
HA-40	0-0.5'												X						
HA-41	0-0.5'												X						
HA-42	0-0.5'			AOC-20 (3)												X		Evaluate potential release of aqueous film-forming foam (AFFF) at the Fire Truck parking area.	
HA-43	0-0.5'			AOC-22					X		X							Evaluate potential impacts associated with the use of a former police firing range within the southeast portion of the Site.	
HA-44	0-0.5'								X		X								
HA-45	0-0.5'								X		X								
HA-46	0-0.5'								X		X								
HA-47	0-0.5'								X		X								
HA-48	0-0.5'			AOC-13, AOC-21, and Potential Airborne Deposition of Impact ⁴	X				X		X	X				X		Further evaluate potential impacts associated with historical airport operations and fill material. Evaluate potential use of AFFF due to aircraft accidents. Evaluate potential atmospheric deposition of impact attributed to off-Site sources.	
HA-49	0-0.5'				X				X		X	X				X			
HA-50	0-0.5'				X				X		X	X				X			
HA-51	0-0.5'				X				X		X	X				X			
HA-52	0-0.5'				X				X		X	X				X			
HA-53	0-0.5'				X				X		X	X				X			

Boring/Hand Sample ID	Sample Depth(s)	Duplicate Collected	Monitoring Well Installed	AOCs/RECs ¹	Analytical (Soil)												Primary Rationale ²	
					ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	Arsenic	PCBs	Pesticides	Herbicides		PFAS
HA-54	0-0.5'			AOC-13, AOC-21, and Potential Airborne Deposition of Impact ⁴	X				X			X	X				X	Further evaluate potential impacts associated with historical airport operations and fill material. Evaluate potential use of AFFF due to aircraft accidents. Evaluate potential atmospheric deposition of impact attributed to off-Site sources.
HA-55	0-0.5'				X				X			X	X				X	
HA-56	0-0.5'				X				X			X	X				X	
HA-57	0-0.5'				X				X			X	X				X	
HA-58	0-0.5'				X				X			X	X				X	
HA-59	0-0.5'	DUP081023			X				X			X	X				X	
B-138	N/A		TMW-21	Off-Site (3)	Well installation only ³												Borings advanced for the purpose of installing groundwater monitoring wells to assess potential impacts from upgradient, off-Site sources. Soil screening was completed to evaluate potential impacts in soil.	
B-139	N/A		TMW-22	Off-Site (4)	Not completed due to utility conflicts													
B-140	N/A		TMW-23	Off-Site (5)	Well installation only ³													
B-141	N/A		TMW-24		Well installation only ³													
B-142	N/A		TMW-25		Well installation only ³													
B-143	0.5-1'			AOC-11	X	X			X		X							Evaluate potential releases associated with the maintenance and repair of aircraft at the T-Hangars.
B-144	0.5-1'				X	X			X		X							Evaluate potential releases associated with the maintenance and repair of aircraft at the T-Hangars.
B-145	0.5-1'				X	X			X		X							
B-146	0.5-1'				X	X			X		X							

Notes:
 1 = Given the overlapping nature of RECs/AOCs, certain borings were used to evaluate multiple RECs/AOCs. The primary REC/AOC is listed first with secondary RECs/AOCs listed in succession.
 2 = The primary rationale is specific to the primary AOC being investigated.
 3 = Soil borings were advanced for the purpose of installing groundwater monitoring wells downgradient of potential sources of impact (both on-Site and off-Site) to assess groundwater conditions. As there is no direct release mechanism associated with the identified AOCs at these locations, soil sampling was not completed. However, the soil was assessed for indications of impact (i.e., staining, odors, and elevated PID readings).
 4 = CTDEEP requested a study to determine if there is any airborne deposition of PFAS attributed to off-site sources.

The following is a summary of results by COC¹.

ETPH

A total of 181 soil samples (including 14 duplicates) were analyzed for ETPH. ETPH was detected below RSR criteria in samples B-2 (4-5'), B-45 (6-8'), B-105 (3-5')/DUP-3, HA-1 (0-0.5'), HA-16 (0-0.5'), HA-20 (0-0.5'), HA-22 (0-0.5'), HA-23 (0-0.5'), HA-52 (0-0.5'), HA-57 (0-0.5'), and HA-59 (0-0.5'). ETPH was detected at concentrations above RSR criteria in the following samples:

- B-44 (3-5')/DUP-5: ETPH at 8,400 mg/Kg, which is above the RES DEC of 500 mg/Kg, the I/C DEC of 2,500 mg/Kg, and the GB PMC of 2,500 mg/Kg.
- B-91 (3-5'): ETPH at 5,100 mg/Kg, which is above the RES DEC of 500 mg/Kg, the I/C DEC of 2,500 mg/Kg, and the GB PMC of 2,500 mg/Kg.
- B-108 (1-2'): ETPH at 620 mg/Kg, which is above the RES DEC of 500 mg/Kg but below the I/C DEC of 2,500 mg/Kg and the GB PMC of 2,500 mg/Kg.
- B-118 (0-2'): ETPH at 770 mg/Kg, which is above the RES DEC of 500 mg/Kg but below the I/C DEC of 2,500 mg/Kg and the GB PMC of 2,500 mg/Kg.
- B-120 (0-2'): ETPH at 1,200 mg/Kg, which is above the RES DEC of 500 mg/Kg but below the I/C DEC of 2,500 mg/Kg and the GB PMC of 2,500 mg/Kg.
- HA-4 (0-0.5'): ETPH at 650 mg/Kg, which is above the RES DEC of 500 mg/Kg but below the I/C DEC of 2,500 mg/Kg and the GB PMC of 2,500 mg/Kg.
- HA-11 (0-0.5')/DUP-13: ETPH at 3,600/1,800 mg/Kg, which is above the RES DEC of 500 mg/Kg. The concentration of ETPH in the parent sample, HA-11 (0-0.5') was also above the I/C DEC of 2,500 mg/Kg and the GB PMC of 2,500 mg/Kg.
- HA-12A (0-0.5'): ETPH at 700 mg/Kg, which is above the RES DEC of 500 mg/Kg but below the I/C DEC of 2,500 mg/Kg and the GB PMC of 2,500 mg/Kg.
- HA-12B (0-0.5'): ETPH at 1,200 mg/Kg, which is above the RES DEC of 500 mg/Kg but below the I/C DEC of 2,500 mg/Kg and the GB PMC of 2,500 mg/Kg.

VOCs

A total of 144 soil samples (including 12 duplicates) were analyzed for VOCs. Excluding samples with apparent laboratory contamination related to tetrahydrofuran, various VOCs were detected below RSR criteria in samples B-20 (6-8'), B-35 (11-13')/DUP-6, B-44 (10-12'), B-68 (8-10'), B-75 (5-7')/DUP-11, B-78 (9-10'), and B-121 (9-10'). Certain VOCs were detected at concentrations above RSR criteria in the following samples:

- B-19 (13-15'): Ethylbenzene at 45 mg/Kg, n-propylbenzene at 20 mg/Kg, 1,2,4-trimethylbenzene at 130 mg/Kg, 1,3,5-trimethylbenzene at 37 mg/Kg, and total xylenes at 170 mg/Kg, which are above their respective GB PMC but below their respective RES DEC and I/C DEC.
- B-44 (3-5'): 4-Isopropyltoluene at 8.3 mg/Kg, n-propylbenzene at 11 mg/Kg, and/or 1,2,4-trimethylbenzene at 62 mg/Kg, which are above their respective GB PMC but below their respective RES DEC and I/C DEC.

¹ For samples with duplicates, concentrations (if provided in the text) consist of the highest concentration among the parent and duplicate. See Table 2 for individual concentrations.

- B-91 (3-5'): Benzene at 0.23 mg/Kg and naphthalene at 77 mg/Kg, which are above their respective GB PMC but below their respective RES DEC and I/C DEC.

1,4-Dioxane

A total of 12 soil samples (including 1 duplicate) were analyzed for 1,4-dioxane, which was not detected at concentrations above the laboratory reporting limit in each samples analyzed.

SVOCs/PAHs

A total of 140 soil samples (including 11 duplicates) were analyzed for SVOCs or PAHs (a subset of SVOCs). Several individual PAH compounds were detected below RSR criteria in samples B-4 (8-10'), B-16 (8-10'), B-20 (6-8')/DUP-2, B-21 (8-10'), B-93 (1-2.5'), B-117 (0.25-2.25'), B-123 (0-2'), HA-1 (0-0.5'), HA-2 (0-0.5'), HA-7 (0-0.5'), HA-9 (0-0.5'), HA-23 (0-0.5'), HA-25 (0-2'), HA-43 (0-0.5'), HA-45 (0-0.5'), HA-51 (0-0.5'), HA-53 (0-0.5'), HA-54 (0-0.5'), HA-56 (0-0.5'), HA-57 (0-0.5'), HA-58 (0-0.5'), HA-59 (0-0.5')/DUP081023. Certain SVOCs/PAHs were detected at concentrations above RSR criteria in the following samples:

- B-43 (13-15'): Benzo(a)anthracene at 3 mg/Kg, benzo(a)pyrene at 2.1 mg/Kg, benzo(b)fluoranthene at 2.7 mg/Kg, benzo(k)fluoranthene at 1.1 mg/Kg, chrysene at 3 mg/Kg, and indeno(1,2,3-cd)pyrene at 1.1 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- B-44 (3-5')/DUP-5: 2-Methylnaphthalene at 45 mg/Kg, which is above the GB PMC of 5.6 mg/Kg but below the RES DEC and I/C DEC of 270 mg/Kg and 1,000 mg/Kg, respectively.
- B-105 (3-5')/DUP-3: Benzo(a)anthracene at 2 mg/Kg, benzo(a)pyrene at 2.1 mg/Kg, benzo(b)fluoranthene at 2.7 mg/Kg, benzo(g,h,i)perylene 1.1 mg/Kg, chrysene at 2.2 mg/Kg, and indeno(1,2,3-cd)pyrene at 1.2 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- B-108 (1-2'): Benzo(a)anthracene at 10 mg/Kg, benzo(a)pyrene at 12 mg/Kg, benzo(b)fluoranthene at 16 mg/Kg, benzo(g,h,i)perylene at 6.2 mg/Kg, benzo(k)fluoranthene at 4.9 mg/Kg, carbazole at 1.3 mg/Kg, chrysene at 12 mg/Kg, dibenz(a,h)anthracene at 1.6 mg/Kg, and indeno(1,2,3-cd)pyrene at 6.7 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene above their respective I/C DEC. The concentration of benzo(b)fluoranthene also exceeded the Significant Environmental Hazard (SEH) notification numerical threshold. However, as this sample was collected beneath an asphalt-paved surface, the SEH statutes for notification do not apply.
- B-112 (0-2'): Indeno(1,2,3-cd) at 1.1 mg/Kg, which is above the RES DEC of 1 mg/Kg and the GB PMC of 1 mg/Kg but below the I/C DEC of 7.8 mg/Kg.

- B-118 (0-2'): Benzo(a)anthracene at 5 mg/Kg, benzo(a)pyrene at 7.9 mg/Kg, benzo(b)fluoranthene at 9.2 mg/Kg, benzo(g,h,i)perylene at 6.8 mg/Kg, benzo(k)fluoranthene at 3.3 mg/Kg, chrysene at 6.1 mg/Kg, dibenz(a,h)anthracene at 1.4 mg/Kg, and indeno(1,2,3-cd)pyrene at 6.3 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene above their respective I/C DEC.
- B-120 (0-2'): Benzo(a)anthracene at 3.3 mg/Kg, benzo(a)pyrene at 3.6 mg/Kg, benzo(b)fluoranthene at 4.2 mg/Kg, benzo(g,h,i)perylene at 3.3 mg/Kg, benzo(k)fluoranthene at 1.7 mg/Kg, chrysene at 3.4 mg/Kg, and indeno(1,2,3-cd)pyrene at 3.1 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- B-125 (0-2')/DUP-12: Benzo(a)anthracene at 3.3 mg/Kg, benzo(a)pyrene at 4.9 mg/Kg, benzo(b)fluoranthene at 5 mg/Kg, benzo(g,h,i)perylene at 2.6 mg/Kg, benzo(k)fluoranthene at 1.7 mg/Kg, chrysene at 3.4 mg/Kg, and indeno(1,2,3-cd)pyrene at 2.6 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- B-132 (0-2'): Benzo(a)anthracene at 1.4 mg/Kg, benzo(a)pyrene at 2 mg/Kg, benzo(b)fluoranthene at 3.2 mg/Kg, benzo(g,h,i)perylene at 1.6 mg/Kg, chrysene at 2.3 mg/Kg, and indeno(1,2,3-cd)pyrene at 1.6 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- B-135 (0-2'): Benzo(a)anthracene at 2 mg/Kg, benzo(a)pyrene at 2.5 mg/Kg, benzo(b)fluoranthene at 3.2 mg/Kg, benzo(g,h,i)perylene at 2.2 mg/Kg, benzo(k)fluoranthene at 1.2 mg/Kg, chrysene at 2.3 mg/Kg, and indeno(1,2,3-cd)pyrene at 2.1 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- HA-3 (0-0.5'): Benzo(a)pyrene at 1.5 mg/Kg, benzo(b)fluoranthene at 2.4 mg/Kg, chrysene at 1.8 mg/Kg, and indeno(1,2,3-cd)pyrene at 1.1 mg/Kg, which are above their respective GB PMC. Benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- HA-4 (0-0.5'): Benzo(a)anthracene at 1.9 mg/Kg, benzo(a)pyrene at 3.3 mg/Kg, benzo(b)fluoranthene at 5.1 mg/Kg, benzo(g,h,i)perylene at 2.3 mg/Kg, benzo(k)fluoranthene at 1.8 mg/Kg, chrysene at 3.4 mg/Kg, and indeno(1,2,3-cd)pyrene at 2.3 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.

- HA-5 (0-0.5'): Benzo(a)anthracene at 2.1 mg/Kg, benzo(a)pyrene at 3 mg/Kg, benzo(b)fluoranthene at 5 mg/Kg, benzo(g,h,i)perylene at 2 mg/Kg, benzo(k)fluoranthene at 1.4 mg/Kg, chrysene at 3.3 mg/Kg, and indeno(1,2,3-cd)pyrene at 2.1 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- HA-21 (0-0.5'): Benzo(a)anthracene at 1.2 mg/Kg, benzo(a)pyrene at 2.1 mg/Kg, benzo(b)fluoranthene at 2.4 mg/Kg, benzo(g,h,i)perylene at 1.5 mg/Kg, chrysene at 1.3 mg/Kg, and indeno(1,2,3-cd)pyrene at 1.6 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- HA-22 (0-0.5'): Benzo(a)anthracene at 2.4 mg/Kg, benzo(a)pyrene at 3 mg/Kg, benzo(b)fluoranthene at 4.2 mg/Kg, benzo(g,h,i)perylene at 1.8 mg/Kg, benzo(k)fluoranthene at 1.3 mg/Kg, chrysene at 3 mg/Kg, and indeno(1,2,3-cd)pyrene at 1.9 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- HA-24 (0-2'): Benzo(a)anthracene at 1.1 mg/Kg, benzo(a)pyrene at 1.2 mg/Kg, and benzo(b)fluoranthene at 1.3 mg/Kg, which are above their respective RES DEC and GB PMC. Benzo(a)pyrene was also detected above the I/C DEC.
- HA-46 (0-0.5'): Benzo(a)anthracene at 1.8 mg/Kg, benzo(a)pyrene at 2.4 mg/Kg, benzo(b)fluoranthene at 3 mg/Kg, benzo(g,h,i)perylene at 1.8 mg/Kg, chrysene at 1.8 mg/Kg, and indeno(1,2,3-cd)pyrene at 1.8 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.
- HA-47 (0-0.5'): Benzo(a)anthracene at 4.1 mg/Kg, benzo(a)pyrene at 4.6 mg/Kg, benzo(b)fluoranthene at 5.5 mg/Kg, benzo(g,h,i)perylene at 2.8 mg/Kg, benzo(k)fluoranthene at 1.5 mg/Kg, chrysene at 4.2 mg/Kg, and indeno(1,2,3-cd)pyrene at 2.8 mg/Kg, which are above their respective GB PMC. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and indeno(1,2,3-cd)pyrene were also detected above their respective RES DEC with concentrations of benzo(a)pyrene above the I/C DEC.

Metals

A total of 135 soil samples (including 9 duplicates) were selectively analyzed for RSR metals (25 samples), RCRA 8 metals (8 samples), lead and arsenic (23 samples), and lead (79 samples) based on the AOC being investigated, as indicated in the previous table. Various metals were detected in all samples at concentrations that appear to be indicative of background. However, based on a statistical review of the metals dataset (generally anything above the 3rd quartile value plus 1.5 times the interquartile range), elevated concentrations of certain metals were identified, including lead in 2 samples above RSR criteria, as summarized below:

- B-3 (0-2'): Zinc at 126 mg/KG, which is below RSR criteria.

- B-43 (13-15'): Lead at 47 mg/Kg, which is below RSR criteria.
- B-108 (1-2'): Vanadium at 64.7 mg/Kg, which is below RSR criteria.
- B-112 (0-2'): Lead at 40.7 mg/Kg, which is below RSR criteria.
- B-135 (0-2'): Lead at 250 mg/Kg and silver at 1.58 mg/Kg, which are below RSR criteria.
- B-145 (0.5-1'): Zinc at 134 mg/Kg, which is below RSR criteria.
- HA-1 (0-0.5'): Lead at 149 mg/Kg, which is below RSR criteria.
- HA-5 (0-0.5'): Lead at 63 mg/Kg, which is below RSR criteria.
- HA-9 (0-0.5'): Lead at 41.4 mg/Kg, which is below RSR criteria.
- HA-10 (0-0.5'): Lead at 51.5 mg/Kg, which is below RSR criteria.
- HA-24 (0-2'): Lead at 50.8 mg/Kg, which is below RSR criteria.
- HA-26 (0-0.5'): Lead at 231 mg/Kg, which is below RSR criteria.
- HA-28 (0-0.5'): Lead at 123 mg/Kg, which is below RSR criteria.
- HA-29 (0-0.5'): Lead at 108 mg/Kg, which is below RSR criteria.
- HA-30 (0-0.5'): Lead at 521 mg/Kg, which is above the RES DEC of 400 mg/Kg but below the I/C DEC of 1,000 mg/Kg.
- HA-31 (0-0.5'): Lead at 78.4 mg/Kg, which is below RSR criteria.
- HA-32 (0-0.5'): Lead at 123 mg/Kg, which is below RSR criteria.
- HA-46 (0-0.5'): Lead at 406 mg/Kg, which is above the RES DEC of 400 mg/Kg but below the I/C DEC of 1,000 mg/Kg.
- HA-47 (0-0.5'): Lead at 387 mg/Kg, which is below RSR criteria.
- HA-49 (0-0.5'): Lead at 43.7 mg/Kg, which is below RSR criteria.
- HA-54 (0-0.5'): Lead at 52.4 mg/Kg, which is below RSR criteria.
- HA-56 (0-0.5'): Lead at 55.4 mg/Kg, which is below RSR criteria.

SPLP analysis for barium, beryllium, chromium, copper, lead, mercury, nickel, vanadium, zinc was completed on a representative number of the samples analyzed (approximately 15%) to evaluate possible GB PMC exceedances. Based on this analysis, the metals detected at the Site comply with the GB PMC.

PCBs

A total of 44 soil samples (including 3 duplicates) were analyzed for PCBs. PCBs were detected in one sample, HA-39 (0-0.5') and consisted of aroclor 1260 at a concentration of 0.53 mg/Kg, which is below the RES DEC of 1 mg/Kg and the I/C DEC of 10 mg/Kg.

Pesticides

A total of 29 soil samples (including 2 duplicates) were analyzed for pesticides. A few individual pesticides were detected in 14 samples with 12 of these samples containing concentrations of chlordane, total DDT, and/or dieldrin above the numerical GB PMC. A representative number of these samples (approximately 15%) were analyzed using the SPLP

as an optional method for compliance with the GB PMC (i.e., ten-times the GWPC). Based on the SPLP analysis, the pesticides comply with the GB PMC.

Herbicides

A total of eight soil samples were analyzed for herbicides. Herbicides were not detected at concentrations above the laboratory reporting limits in all samples analyzed.

PFAS

A total of 14 soil samples (including 1 duplicate) were analyzed for PFAS. One or more PFAS compounds, including perfluorohexanesulfonic acid (PFHxS), perfluorooctanesulfonic acid (PFOS), and perfluorooctanoic acid (PFOA) were detected in each soil sample analyzed. Total PFAS were detected in sample HA-49 (0-0.5') at a concentration of 0.04064 mg/Kg, which was above the GB PMC of 0.014 mg/Kg but not the RES DEC of 1.35 mg/Kg and I/C DEC of 41 mg/Kg.

Glycol

Soil samples B-109 GLYCOL (1-3') and B-110 GLYCOL (3-5') were analyzed for glycols. Glycols were not detected at concentrations above the laboratory reporting limits in these samples.

7.2 Groundwater

A total of 32 groundwater samples (including 4 duplicates) were collected from monitoring wells TMW-1 through TMW-21, TMW-23 through TMW-25, MW-1, MW-2, and OW-1 and selectively analyzed for the following COCs to assess groundwater conditions at the Site:

- ETPH by the CT Department of Public Health (CTDPH) method
- VOCs by EPA Method 8260
- 1,4-Dioxane by EPA Method 8260
- SVOCs or PAHs by EPA Method 8270
- RSR metals, RCRA 8 metals, and/or Lead by EPA Method 6010
- PCBs by EPA Method 8082; and
- Per- and Polyfluorinated Substances (PFAS) by EPA Method 537M (CT List).

The following table summarizes the analysis and rationale for each monitoring well sampled at the Site:

Monitoring Well / Duplicate	Analysis									Primary Rationale ¹	
	ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	PCBs		PFAS
TMW-1	X	X	X	X				X			Downgradient of a historical release area – REC-1 (1)
TMW-2	X	X			X		X		X		Area of historical hangar operations – AOC-1 (1)
TMW-3	X	X		X			X		X	X	Area of historical hangar operations – AOC-1 (2)
TMW-4 DUP-5	X	X		X			X		X		Downgradient of State Police Hangar – AOC-8 (1)
TMW-5	X	X			X	X					Area of former USTs – AOC-2 (12 and 13)
TMW-6 DUP-1	X	X		X			X		X	X	Downgradient of CAA Maint. Garage – AOC-7 (2)
TMW-7	X	X		X			X		X		Downgradient of Hangar H2 – AOC-8 (3)
TMW-8	X	X	X	X			X		X		Downgradient of Hangar H3 – AOC-8 (4)
TMW-9 DUP-4	X	X		X			X		X		Downgradient of FBO Fuel Farm – AOC-3 (4)
TMW-10 DUP-2	X	X			X			X			Downgradient of Former Fuel Line Release – AOC-5
TMW-11	X	X		X			X		X		Downgradient of Hangar H1 – AOC-8 (2)
TMW-12 DUP-3	X	X	X	X			X		X		Downgradient of Hangar H4 – AOC-8 (5)
TMW-13	X	X	X		X	X					Downgradient of T-Hangars – AOC-11
TMW-14	X	X	X		X	X					Downgradient of T-Hangars – AOC-11
TMW-15	X	X		X			X		X	X	Downgradient of CT Aero School – AOC 12
TMW-16	X	X	X		X	X			X		Area of previous aircraft storage and Site coverage
TMW-17	X	X	X		X	X					Downgradient of hangar areas and Site coverage
TMW-18	X	X		X			X		X	X	Downgradient of Site/former shooting range – AOC-22
TMW-19	X	X		X			X		X	X	Downgradient of Site/jet fuel line – AOC-17
TMW-20	X	X		X			X		X		Downgradient of Site/jet fuel line – AOC-17

Monitoring Well / Duplicate	Analysis									Primary Rationale ¹	
	ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Lead	PCBs		PFAS
TMW-21	X	X				X			X		Downgradient of potential off-Site concerns
TMW-23	X	X			X	X				X	Downgradient of potential off-Site concerns
TMW-24	X	X			X	X					Downgradient of potential off-Site concerns
TMW-25	X	X			X	X				X	Downgradient of potential off-Site concerns
MW-1	X	X		X			X		X		Downgradient of potential off-Site concerns
MW-2	X	X		X			X		X		Downgradient of potential off-Site concerns
OW-1	X	X	X	X			X		X		Observation well for oil/water separator – AOC-6 (4)
Notes: 1 = = The primary rationale is specific to the most likely source(s) of impact. However, there are overlapping AOCs and there potential for impact to migrate from other sources.											

The following is a summary of results by COC.

ETPH

Each groundwater sample (including 2 duplicates) were analyzed for ETPH. ETPH was not detected in any sample at concentrations above the laboratory reporting limits.

VOCs

Each groundwater sample (including 2 duplicates) were analyzed for VOCs. The VOC compounds m,p-xylene and cis-1,2-dichloroethene were detected in groundwater samples collected from monitoring wells TMW-5 and TMW-7, respectively, at concentrations below RSR criteria. VOCs were not detected at concentrations above the laboratory reporting limits in the remaining groundwater samples.

1,4-Dioxane

A total of 9 groundwater samples (including 1 duplicate) were analyzed for 1,4-dioxane. 1,4-dioxane was not detected at concentrations above the laboratory reporting limits.

SVOCs/PAHs

A total of 28 groundwater samples (including 2 duplicates) were analyzed for SVOCs or PAHs (a subset of SVOCs). A few PAH-related compounds were detected in groundwater samples collected from monitoring wells TMW-14, TMW-18, and TMW-23. The groundwater sample collected from monitoring well TMW-23 contained a concentration of acenaphthylene at 0.39 µg/L, which is above the SWPC of 0.3 µg/L.

Metals

A total of 29 groundwater samples (including 2 duplicates) were selectively analyzed for RSR metals (18 samples), RCRA 8 metals (9 samples), and lead (2 samples) based on target AOCs in the area of each well. Various metals were detected in all samples at concentrations that appear to be indicative of background. However, based on a review of the metals dataset, elevated concentrations of certain metals were identified, including arsenic in 6 samples above RSR criteria, as summarized below:

- TMW-4/DUP-5: Arsenic at 12 µg/L, which is above the SWPC of 4 µg/L and barium at 287 µg/L, which is below RSR criteria.
- TMW-7: Arsenic at 55 µg/L, which is above the SWPC of 4 µg/L.
- TMW-12: Arsenic at 9 µg/L, which is above the SWPC of 4 µg/L.
- TMW-19: Arsenic at 5 µg/L, which is above the SWPC of 4 µg/L.
- TMW-25: Arsenic at 10 µg/L, which is above the SWPC of 4 µg/L.
- MW-1: Total chromium at 12 µg/L, which is below the most stringent RSR criteria for hexavalent chromium.
- MW-2: Barium at 714 µg/L, which is below RSR criteria.

PCBs

A total of 19 groundwater samples (including 1 duplicate) were analyzed for PCBs. PCBs were not detected at concentrations above the laboratory reporting limit in all samples analyzed.

PFAS

A total of 8 groundwater samples (including 1 duplicate) were analyzed for the CT list of PFAS. One or more PFAS were detected above the laboratory reporting limits in 7 samples. There is currently no established RSR criteria for PFAS in GB groundwater areas. Based on a review of the dataset, the groundwater sample collected from monitoring well TMW-18 contained an elevated concentration of total PFAS at 0.801 µg/L, which is more than 12 times the next highest concentration of 0.0642 µg/L that was detected in the groundwater sample collected from monitoring well TMW-6.

Section 8 Quality Assurance / Quality Control

During the investigation activities conducted by Tighe & Bond, sufficient Quality Assurance/Quality Control (QA/QC) procedures were followed to conduct a Data Quality Assessment (DQA) and Data Usability Evaluation (DUE), as required by the CTDEEP Laboratory QA/QC DQA & DUE Guidance Document, dated May 2009, revised December 2010. The following provides a discussion of the DQA/DUE conducted for the data obtained by Tighe & Bond.

Based on the information provided in this section, it is Tighe & Bond's opinion that the site-specific Data Quality Objectives (DQOs) have been met and data usability has not been affected by any discrepancies.

A summary of results from QA/QC samples, including duplicate samples are included in the sections below.

8.1 Data Quality Objectives

DQOs for the environmental investigation activities were developed to ensure that a sufficient quantity and quality of analytical data were obtained in order to:

- Determine if a release has taken place;
- Determine if contamination is present in the environment at concentrations exceeding the applicable RSR criteria;
- Support a defensible conclusion that the horizontal and vertical extent of contamination has been adequately delineated; and,
- Support a defensible conclusion that a release area has been remediated such that the post-remediation concentrations of COCs comply with the RSRs.

The soil samples obtained during Tighe & Bond's investigation activities were analyzed per the RCP methods to demonstrate sufficient quality of data.

8.2 DQA/DUE for Investigation Results

The investigation data was provided within 19 laboratory reports from Phoenix. Investigation samples were collected between April and August 2023. These samples were analyzed using the RCP methods. The RCP Case Narrative of the laboratory report indicates that minor QA/QC nonconformities were identified and are summarized in Table 4. Laboratory data reports for soil and groundwater are provided in Appendix E and Appendix F, respectively. The following briefly summarizes the findings of the DUE; see Table 4 for details and considerations:

- The QA/QC Certification Form for the laboratory report indicate that the report met the requirements for "Reasonable Confidence"; however, some samples only had PAH constituents and limited metals reported as requested on the chain-of custody; which is not in accordance with Reasonable Confidence methods.
- Proper Chain of Custody protocols were utilized for all laboratory reports, including recordation of signatures, dates, and times documenting custody changes.
- All samples were received by the laboratory below 6°C. For lab report GCN92786 samples were received at 6.8°C in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection; therefore, no significant bias is suspected.

- All reporting limits were met except for some parameters with elevated results or potential matrix interference. Based on Tighe & Bond's evaluation, data usability is not likely affected.
- All samples were analyzed within holding times for the various parameters.
- COCs associated with the site were not detected in any of the laboratory blanks.
- Most laboratory control samples (LCS), matrix spikes (MS), and surrogates (SUR) were within the method specific limits for COCs associated with the Site; however, some lab reports had high/low biases and variabilities of various parameters; however, based on other QC data and sample results, no significant bias is suspected. See Table 4 for details for each laboratory report.
- Other significant QA/QC non-conformities were not noted.

8.3 Duplicate Samples

Field duplicate samples are collected to provide information on data reproducibility. The duplicate samples were obtained by collecting two identical sets of soil or groundwater samples from a single sample location. The comparison of a duplicate sample and the parent's sample is a measurement of analytical precision, measured as Relative Percent Difference (RPD) as defined within the CTDEEP Laboratory Quality Assurance and Quality Control Guidance Document, dated May 2009, revised December 2010. In accordance with the Guidance Document, duplicate samples were collected at a frequency of one duplicate sample per 20 samples collected.

During the investigation activities, 13 duplicate soil samples and five duplicate groundwater samples were collected. The tables below summarize the duplicate and parent samples along with the RPD results for each analysis performed. Based on our data evaluation, the data appear useable for their intended purpose.

8.3.1 Soil Duplicates

Parent	Duplicate SOIL	RPD Results						PFAS
		CT ETPH	Metals	Pesticides	PCBs	VOCs	SVOCs	
B-10	DUP-1	ND	-1 to 3	-	ND	ND	ND	-
B-20	DUP-2	ND	-14	-	-	ND	8 to 9	-
B-30	DUP-4	ND	-5	-	-	ND	ND	-
B-35	DUP-6	ND	-	-	-	4	-	-
B-44	DUP-5	-3	-1 to 0	-	ND	-4 to 1	-1	-
B-59	DUP-7	ND	3	-	-	ND	ND	-
B-67	DUP-10	ND	-	-	-	ND	-	-
B-75	DUP-11	ND	-1	-	-	-20	ND	-
B-88	DUP-8	ND	-4 to 0	-	ND	ND	ND	-
B-105	DUP-3	0	-	-	-	ND	-16 to 10	-
B-125	DUP-12	ND	-12 to 2	2 to 19	ND	ND	-11 to -3	-
B-133	DUP-9	ND	-	-	-	ND	ND	-
HA-11	DUP-13	ND	-	-	-	-	-	-
HA-59	DUP081023	-26	-1 to 0	-	-	-	-5 to 14	-6

Single metal RPD value indicates that only lead was analyzed.

ND indicates compound was not reported above laboratory limits.

"-" - Sample not analyzed

8.3.1 Groundwater Duplicates

Parent Groundwater	Duplicate	RPD Results						
		CT ETPH	Metals	Pesticides	PCBs	VOCs	SVOCs	PFAS
TMW-4	DUP-5	-	-40 to 18	-	-	-	-	2 to 21
TMW-6	DUP-1	-	-	-	-	-	-	-
TMW-9	DUP-4	ND	0	-	ND	-	ND	-
TMW-10	DUP-2	ND	-	-	-	ND	ND	-
TMW-12	DUP-3	-	-	-	-	ND	-	-

ND indicates compound was not reported above laboratory limits.

"-" - Sample not analyzed

Section 9 Abutter Considerations

Several off-site properties of environmental concern were identified to the north, west, and south of Hartford-Brainard Airport. Based on the shallow groundwater flow direction, the property with the highest potential for on-Site impact is the former Materials Innovation and Recycling Authority (MIRA) facility to the north. This property was also identified under Connecticut Light & Power, Connecticut Resources Recovery Authority (CRRRA), and Mid-CT Resource Recovery Facility. In addition, the MDC, which abuts the Site to the south, was identified as another property with a high potential for on-Site impact given its proximity and wastewater treatment operations. Given the industrial setting of the Site, there is also potential for airborne deposition of impact from these nearby properties.

During the Phase I ESA, Tighe & Bond researched pertinent records associated with these off-Site properties of concern and determined that based on current and historical operations, including identified releases of hazardous substances, that there was a potential for groundwater to be impacted. Further, the former MIRA property is currently in the process of closure and Environmental Use Restrictions (EURs) were identified that include the following restrictions: residential activity, exposure of inaccessible soil, exposure of environmental isolated soil, disturbance of engineered control and polluted soil. There was also concern expressed during public workshops conducted for this project that the former MIRA property was historically a Manufactured Gas Plant (MGP) and coal tar byproduct was produced; however, available records did not identify a MGP at this location or coal tar storage/placement areas.

As part of the development of the Phase II/III ESA work plan, potential impacts from hydraulically upgradient properties was assessed through groundwater sampling of monitoring wells located along Site boundaries, as summarized in Section 7.2. Groundwater plumes associated with off-Site release were not identified. In addition, surficial soil sampling was completed to assess potential airborne deposition of impacts.

Section 10 Conceptual Site Model

A CSM is a representation of an environmental system that is used as a tool for understanding and explaining the basis and rationale for site investigation and conclusions drawn about the environmental conditions at a site. A CSM describes, explains, and provides an understanding of the nature and distribution of contaminants necessary to evaluate potential risks to human health and the environment. A CSM includes but may not be limited to information regarding potential AOCs, release areas, pathways for contaminant migration, potential receptors, and exposure risk. The CSM is refined throughout the site characterization and remediation process as new data are acquired. The number of iterations and the quantity and quality of information that is necessary is a function of the complexity of site conditions and the data quality objectives established for site characterization. A final CSM will fully define the environmental system at a site and validate the hypotheses regarding the environmental fate of released contaminants. The current CSM for the site is summarized as follows.

10.1 Description of Site, Environments and AOCs

A description of the Site environmental setting, history, site operations, receptors, AOCs, and COCs is provided in Sections 3 and 4.

10.2 Potential Release Mechanisms

Potential release mechanisms for the site vary by AOC but generally include the following potential release mechanisms:

- Potential releases directly to the ground surface or subsurface from leaks, spills, or overfills from tanks, piping, equipment, and/or human failure.
- Potential releases directly to the subsurface due to leach fields, dry wells, or similar features designed to drain to the subsurface.
- Potential releases due to leaching from hazardous building materials such as caulking found along windows, doors, and other building features.
- Potential releases associated with current or historical placement of polluted fill directly onto the ground surface.
- Potential airborne deposition to surficial soils.

10.3 Migration Pathways

Migration pathways for the Site also vary by AOC but generally include the following:

- Migration pathways associated with spills, leaks, or deposition at or below the ground surface with vertical migration through soil to the overburden or bedrock water table, then horizontally and/or vertically with groundwater. Contaminants released onto concrete or asphalt may have the potential to be transported through cracks or joints or through the porous concrete itself. Asphalt-paved parking areas, tarmacs, taxiways, and runways are located throughout the Site.
- Migration pathways associated with contaminant transport through overland flow at the ground surface.

10.4 Areas of Concern & Identified Release Areas

AOCs are defined in the CTDEEP SCGD as "locations or areas where regulated substances have been or may have been used, stored, treated, handled, disposed, spilled, and/or released to the environment." During the completion of the Phase I ESA, RECs were also identified, which are defined as "(1) the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment."

The CTDEEP SCGD defines Release Areas (RAs) as "the area at and beneath which polluted soil is located as a result of a release."

A total of 1 REC and 23 AOCs and/or RECs were previously identified by Tighe & Bond during the Phase I ESA (see Section 4, Figures 3, 3-1, and 3-2). During the completion of the Phase II/III ESA, an additional AOC was identified, AOC-24: Potential Airborne Deposition of Impact. All RECs/AOCs were either directly or indirectly investigated, except for the following:

- AOC-2/REC-2 (5): Former UST at State Police Hangar
- AOC-2/REC-2 (10): Former 2,000-Gallon Heating Oil UST north of CAA Maintenance Shop
- AOC-2/REC-2 (11): Former Gasoline UST northwest of CAA Maintenance Shop
- AOC-6 (6): Oil/Water Separator north of Hangar H4
- AOC-7 (3): CAA ARFF
- AOC-23: Outfalls at Connecticut River

Investigations of these RECs/AOCs was not completed due to being outside the apparent current Site boundary or due to utility conflicts.

In addition, full investigation in accordance with the SCGD was not completed for the following RECs/AOCs:

- REC-1: Historical Releases (throughout developed portions of the Site)
- AOC-1: Historical Hangar Operations (two locations)
- AOC-2/REC-2: Underground Storage Tanks (twenty-five locations)
- AOC-7: Airport Maintenance Facilities (two locations)
- AOC-8: Aircraft Maintenance and Repair Facilities (five locations)
- AOC-11: T-Hangar Buildings (five adjacent locations)
- AOC-12: CT Aero Tech School
- AOC-13/REC-4: Soil and Groundwater Impacts from Historical Airport Activities and/or Historical Fill Utilized at the Site
- AOC-20: Aqueous Film-Forming Foam (six locations)
- AOC-21/REC-5: Aircraft Accidents

Given the size of the Site, limited documentation regarding the locations of USTs and aircraft accidents, and/or restricted drilling access to most hangars/buildings, these AOCs/RECs were

investigated by assessing the vadose zone in the general vicinity of each REC/AOC or through the collection of groundwater samples from downgradient monitoring wells.

Based on Phase II/III ESA activities conducted to date, 30 RAs have been identified. The following table summarizes the CSM, including the AOCs investigated and the RAs identified.

REC/AOC	Description	COCs ¹	Potential Release Mechanisms	Phase II/II ESA Testing Summary	RAs Identified	Release Details
REC-1	Historical Releases (throughout developed portions of the Site)	ETPH, VOCs, PAHs, Metals, PCBs	Reported releases associated with fueling operations, tank overfills, LUSTs, hose/equipment failures, etc.	Documentation regarding release locations was limited. Only one spill record pertaining to a release of aviation gasoline was identified that indicated a location, a turf island east of Hangar H1. Soil and groundwater testing was completed at this location.	RA-1: Historical Release of Aviation Gasoline <i>ETPH in Soil < RSRs</i>	Records indicate that the release was excavated. Residual ETPH impact was identified below RSRs. Groundwater monitoring completed at this location did not identify groundwater impacts.
AOC-1	Historical Hangar Operations (two locations)	ETPH, VOCs, SVOCs, Metals	Potential releases from material handling and potential former tanks at historical hangar locations.	Soil and groundwater investigations were completed throughout the AOC, mostly as part of other AOCs/RECs.	None	Due to overlapping nature of AOCs/RECs, no releases were identified that were directly attributed to this AOC.
AOC-2/REC-2	Underground Storage Tanks (twenty-eight locations)	ETPH, VOCs, SVOCs, Metals, PCBs	Potential releases from material handling, leaking tanks, piping, and/or dispensers.	Soil and/or groundwater investigations were completed at most known former UST locations, except for AOC-2/REC-2 locations (5), (10), and (11), which appear to be outside the Site boundary or were not investigated due to utility conflicts. In addition, certain former UST locations could not be directly investigated due to limited location documentation.	RA-2: CAA Maintenance Shop – Former Gasoline and Diesel USTs and Dispenser Island <i>VOCs in Soil > RSRs</i> <i>VOCs in GW < RSRs</i> RA-3: Hangar H1 – Former 10,000-Gal. UST <i>VOCs in Soil < RSRs</i> RA-4: Hangar H2 – Potential Former Three 4,000-Gal. USTs and Hydrant Dispenser <i>VOCs in Soil < RSRs</i> RA-5: Hangar H4 – Potential Former Three 4,000-Gal. USTs and Hydrant Dispenser <i>VOCs in Soil < RSRs</i> RA-6: Hangar H3 – Potential Former Fuel Farm <i>VOCs in Soil < RSRs</i>	<u>RA-2</u> VOC impact was identified above RSRs. Based on the sampling completed in the vicinity, this release is mostly delineated. <u>RA-3 through RA-6</u> VOC impact was identified below RSRs at each of these RAs. Based on the sampling completed in the vicinities, these releases are mostly delineated.

REC/AOC	Description	COCs ¹	Potential Release Mechanisms	Phase II/II ESA Testing Summary	RAs Identified	Release Details
AOC-3	Aboveground Storage Tanks (twelve locations)	ETPH, VOCs, SVOCs, Metals, PCBs	Potential releases from material handling, leaking tanks, piping, and/or dispensers.	Soil and/or groundwater investigations were completed throughout identified current and former AST locations.	RA-7: Hangar H1 – Former Waste Oil AST <i>ETPH in Soil > RSRs</i> <i>VOCs in Soil > RSRs</i> <i>PAHs in Soil > RSRs</i> RA-8: CAA Fuel Farm <i>ETPH in Soil > RSRs</i> <i>VOCs in Soil > RSRs</i>	<u>RA-7</u> ETPH, VOC, and PAH impact was identified above RSRs at the former waste oil AST location off the northwest corner of Hangar H1. <u>RA-8</u> ETPH and VOC impact was identified above RSRs in the grass-landscaping adjacent to the CAA Fuel Farm. Given the good condition of the associated tank, the release is likely attributed to fueling operations at this location.
AOC-4	Former Hazardous Waste Storage Container	ETPH, VOCs, SVOCs, Metals, PCBs	Potential releases from material handling.	Soil investigation was complete at this AOC.	None	Not Applicable
AOC-5/REC-3	Former Fuel Distribution Boxes and Product Delivery Line	ETPH, VOCs, PAHs, Lead	Reported release at former fuel distribution box. Potential releases from material handling and piping run.	Soil and groundwater investigations were completed at this AOC/REC.	RA-9: Former Fuel Box 1 <i>No Detections</i>	Low-level petroleum impacts below RSR criteria were previously reported at this AOC/REC. Phase II/III testing of the soil and groundwater did not identify detections of COCs above laboratory reporting limits.
AOC-6	Oil/Water Separators (eight locations)	ETPH, VOCs, 1,4-Dioxane, SVOCs, PCBs	Potential releases from oil/water separators and associated piping.	Soil and/or groundwater investigations were completed throughout identified current and former oil/water separator locations. However, the Hangar H4 oil/water separator was not directly investigated due to utility conflicts.	None	Not Applicable
AOC-7	Airport Maintenance Facilities (three locations)	ETPH, VOCs, SVOCs, Metals, PCBs, PFAS	Potential releases from material handling, tanks, drums, and containers.	Soil sampling within airport maintenance facilities was not permitted. CAA Maintenance Shop and CAA Maintenance Garage assessed by downgradient soil sampling and groundwater monitoring.	None	Not Applicable
AOC-8	Aircraft Maintenance and Repair Facilities (five locations)	ETPH, VOCs, SVOCs, Metals, PCBs	Potential releases from material handling, tanks, drums, and containers.	Soil sampling within airport maintenance facilities was not permitted. CAA Maintenance Shop and CAA Maintenance Garage assessed by downgradient soil sampling and groundwater monitoring.	RA-10: Hangar H4 <i>ETPH in Soil > RSRs</i> <i>PAHs in Soil > RSRs</i> <i>Elevated Vanadium < RSRs</i>	<u>RA-10</u> ETPH and PAH impact above RSR criteria and elevated vanadium below RSR criteria was identified east of the Hangar H4 bay door within the shallow 1-2' interval. <u>Hangar H2</u> Although not considered a release by definition, a low-level concentration of the VOC cis-1,2-dichloroethene was detected in the groundwater sample collected from monitoring well TMW-7, downgradient of Hangar H2, indicating a potential release at this location.
AOC-9	Aircraft Deicing	1,4-Dioxane, Glycols	Potential impacts associated with the deicing of aircraft.	Soil and groundwater investigations were completed throughout the Site.	None	Not Applicable

REC/AOC	Description	COCs ¹	Potential Release Mechanisms	Phase II/II ESA Testing Summary	RAs Identified	Release Details
AOC-10	Fuel Truck Parking (three locations)	ETPH, VOCs, PAHs, Lead	Potential releases from fuel trucks.	Soil and/or groundwater investigations were completed at this AOC.	None	Not Applicable
AOC-11	T-Hangar Buildings (five adjacent locations)	ETPH, VOCs, PAHs, Metals, PCBs	Potential releases from material handling associated with aircraft maintenance and repairs.	Limited soil and groundwater investigations were completed at this AOC.	RA-11: T-Hangars <i>VOCs < RSRs</i>	Low-level VOC impact below RSRs was identified south of T-Hangars 21-30.
AOC-12	CT Aero Tech School	ETPH, VOCs, SVOCs, Metals, PCBs	Potential releases from material handling, drums, containers, and paint booth operations.	Due to utility conflicts, only downgradient soil and groundwater sampling was completed.	None	Not Applicable
AOC-13/REC-4	Soil and Groundwater Impacts from Historical Airport Activities and/or Historical Fill Utilized at the Site	ETPH, VOCs, SVOCs, Metals, PCBs, PFAS, Pesticides, Herbicides	Releases associated with the longstanding operation of the airport, including placement of potentially polluted urban fill material.	Soil and groundwater investigations were completed throughout this AOC/REC, mostly as part of other AOCs/RECs.	RA-12: Fill Material (site-wide) <i>ETPH in Soil > RSRs</i> <i>Elevated Metals in Soil < RSRs</i> <i>Metals in GW > RSRs</i> <i>PAHs in Soil > RSRs</i> <i>PAHs in GW > RSRs</i> RA-13: Historical Application of Pesticides (site-wide) <i>Pesticides < RSRs</i>	<u>RA-12</u> Elevated concentrations of certain metals below RSR criteria and ETPH and several individual PAHs above and below RSR criteria were identified sporadically throughout the Site. In addition, apparent fill-related impact was identified at deeper intervals at certain former UST locations, indicative of potentially impacted backfill or comingled fill material. <u>RA-13</u> A few pesticides were detected below criteria along tarmacs and the turf runway.
AOC-14	Electrical Transformers (seven locations)	ETPH, PCBs	Potential release of dielectric fluid from leaking transformer equipment.	Soil investigations were completed at this AOC.	RA-14: CAA Maintenance Shop – Pole-Mounted Transformer <i>ETPH in Soil > RSRs</i> RA-15: State Police Hangar – Pole- and Pad-Mounted Transformers <i>ETPH in Soil > RSRs</i>	<u>RA-14</u> ETPH impact above RSRs was identified beneath the location of a pole-mounted transformer. <u>RA-15</u> ETPH impact above RSRs was identified beneath and adjacent to pole- and pad-mounted transformers, respectively. PCBs were not detected.
AOC-15	Diesel Generators (four locations)	ETPH	Potential releases from material handling, tank, piping, and generator equipment.	Soil investigations were completed at this AOC.	None	Not Applicable
AOC-16	Dumpsters (seven locations)	ETPH, VOCs, PAHs	Potential releases associated with the wrongful placement of hazardous substances and petroleum products in dumpsters.	Soil investigations were completed at this AOC.	None	Not Applicable

REC/AOC	Description	COCs ¹	Potential Release Mechanisms	Phase II/II ESA Testing Summary	RAs Identified	Release Details
AOC-17	Main Regional Jet Fuel Supply Line	ETPH, VOCs, PAHs, Lead, PCBs	Potential releases from jet fuel supply line that transects through the eastern portion of the Site.	Soil and groundwater investigations were completed along this AOC.	None	Not Applicable
AOC-18	Soil Pile	ETPH, VOCs, SVOCs, Metals, PCBs, Pesticides	Soil pile from unknown source may contain impacts. Empty drums were observed that may have releases hazardous substances or petroleum products.	Soil investigation was completed at this AOC.	RA-16: Soil Pile <i>Elevated Lead < RSRs</i> <i>PAHs in Soil > RSRs</i>	Elevated lead below RSR criteria and PAHs above and below RSR criteria were detected in soil samples collected from the soil pile.
AOC-19	Potential Surficial Impacts from Hazardous Building Materials and Application of Pesticides (past and present building envelopes)	Lead, PCBs, Pesticides	Peeling and chipping lead-based paint, potential leaching of PCBs from caulks/sealant to surficial soil surrounding vintage Site structures. Potential application of pesticides along building exteriors.	Soil investigation was completed at this AOC.	RA-17: Building Envelope – State Police Abandoned Building <i>Elevated Lead < RSRs</i> <i>Pesticides < RSRs</i> RA-18: Building Envelope – State Police Hangar <i>Elevated Lead < RSRs</i> <i>Pesticides < RSRs</i> RA-19: Building Envelope – CAA Administration Building <i>Lead > RSRs</i> RA-20: Building Envelope – CAA Maintenance Garage <i>Elevated Lead < RSRs</i> <i>Pesticides < RSRs</i> RA-21: Building Envelope – CAA Maintenance Shop <i>Elevated Lead < RSRs</i> <i>Pesticides < RSRs</i> RA-22: Building Envelope – Hangar H1 <i>Pesticides < RSRs</i>	Elevated lead, including lead above RSR criteria at the CAA Administration Building, and/or pesticides below RSR criteria were identified along the building envelopes of several structures. PCBs attributed to leaching of PCB-containing exterior building components was identified at the FAA Control Tower.

REC/AOC	Description	COCs ¹	Potential Release Mechanisms	Phase II/II ESA Testing Summary	RAs Identified	Release Details
AOC-19 (cont.)	Potential Surficial Impacts from Hazardous Building Materials and Application of Pesticides (past and present building envelopes)	Lead, PCBs, Pesticides	Peeling and chipping lead-based paint, potential leaching of PCBs from caulks/sealant to surficial soil surrounding vintage Site structures. Potential application of pesticides along building exteriors.	Soil investigation was completed at this AOC.	<p>RA-23: Building Envelope – Office/Restaurant <i>Pesticides < RSRs</i></p> <p>RA-24: Building Envelope – FAA Control Tower <i>PCBs < RSRs</i> <i>Pesticides < RSRs</i></p> <p>RA-25: Building Envelope – CT Aero Tech School <i>Pesticides < RSRs</i></p> <p>RA-26: Building Envelope – Engine Test Room <i>Pesticides < RSRs</i></p> <p>RA-27: Building Envelope – T-Hangar (240 Lindbergh Drive) <i>Pesticides < RSRs</i></p> <p>RA-28: Building Envelope – T-Hangar (1-10) <i>Pesticides < RSRs</i></p>	Elevated lead, including lead above RSR criteria at the CAA Administration Building, and/or pesticides below RSR criteria were identified along the building envelopes of several structures. PCBs attributed to leaching of PCB-containing exterior building components was identified at the FAA Control Tower.
AOC-20	Aqueous Film-Forming Foam (six locations)	PFAS	Potential release from material handling, tanks, and piping. PFAS was identified at the CAA Maintenance Shop (two locations), CAA Maintenance Garage, CT Aero Tech School, and CAA ARFF. In addition, AFFF could have been used throughout the Site (see AOC-21/REC-5).	Limited soil and groundwater investigations were completed at this AOC.	No direct releases identified. However, PFAS were detected in all soil samples and most groundwater samples analyzed.	Although not considered a release by definition, groundwater sampling completed in certain target downgradient monitoring wells identified concentrations of PFAS that may be attributed to releases from this AOC.

REC/AOC	Description	COCs ¹	Potential Release Mechanisms	Phase II/II ESA Testing Summary	RAs Identified	Release Details
AOC-21/REC-5	Aircraft Accidents	ETPH, VOCs, SVOCs, PFAS	Releases associated with aircraft accidents. Potential use of PFAS-containing AFFF for fire suppression.	Limited soil investigation was completed at this AOC.	No direct releases identified. However, PFAS that may be attributed to the use of AFFF were detected in all soil samples and most groundwater samples analyzed.	Although not considered a release by definition, an elevated concentration of PFAS was identified in the groundwater sample collected from TMW-18, located within the southeast corner of the Site. Based on the apparent groundwater flow direction at the Site, a PFAS release area(s) may be in the vicinity of the runways that was associated with this AOC/REC. Additional limited sampling completed in the vicinity of runways and tarmacs (where aircraft accidents are presumed likely) did not appear to identify a release associated with this AOC.
AOC-22	Former Police Firing Range	Metals, PAHs	Potential lead and PAH impacts from the former use of a firing range at the Site.	Soil investigation was completed at this AOC.	RA-29: Former Police Firing Range <i>Lead > RSRs</i>	Elevated concentrations of lead, including lead above RSR criteria, was identified at this AOC and attributed to the former firing range.
AOC-23	Outfalls at Connecticut River	ETPH, VOCs, 1,4-Dioxane, SVOCs, Metals, PCBs, Pesticides, Herbicides, PFAS	Potentially impacted runoff migrating to the Site drainage system and ultimately discharging out of the two outfalls at the Connecticut River, which are outside the Site boundary.	None	Not Applicable	Not Applicable
AOC-24	Potential Airborne Deposition of Impact	ETPH, PAHs, Metals, PFAS	Potential deposition of airborne pollutants to surficial soils at the Site from potential Site and off-Site sources.	Soil investigation was completed at this AOC.	RA-30: Airborne Deposition of Impact (site-wide) <i>ETPH in Soil > RSRs</i> <i>Elevated Metals in Soil < RSRs</i> <i>PAHs in Soil > RSRs</i> <i>PFAS in Soil > RSRs</i>	Elevated concentrations of certain metals below RSR criteria and ETPH and several individual PAHs above and below RSR criteria were identified sporadically throughout the Site in the shallow soil. In addition, PFAS was identified in all shallow samples analyzed with one sample collected near the abutting MDC property containing a concentration above the GB PMC. Although these detections could be attributed to AOC-13/REC-4 (fill material), AOC-20, and/or AOC-21, the potential exists for the impact to be attributed to airborne deposition.

Notes:

1 = Giving the grouping of certain AOCs/RECs, not all COCs listed are applicable. Certain sub-AOCs have different sets of COCs (e.g., USTs of different contents).

The following is a summary of the identified RAs, which are also identified on Figures 6, 6-1, and 6-2:

RA-1: Historical Release of Aviation Gasoline [REC-1]

A release occurred in April 2005 of approximately 300-gallons of aviation gasoline. The release encompassed an eight foot by 30-foot area east of the fuel truck parking within the turf island. Approximately 51.38 tons of impacted soil was excavated and disposed of off-site. Based on the tonnage and excavation area, it is likely that the excavation was advanced to a depth of approximately 4 feet bgs. Groundwater was not assessed.

During the Phase II/III ESA, soil borings B-1 and B-2 were advanced to assess REC-1. Soil samples were collected from each boring from the 4-5' depth interval. ETPH was detected in soil sample B-2 (4-5') at 250 mg/Kg, which is below RSR criteria. The ETPH detection is attributed to residual impact from the 2005 release.

RA-2: CAA Maintenance Shop – Former Gasoline and Diesel USTs and Dispenser Island [AOC-2/REC-2 (12)]

The USTs and dispenser island at the CAA Maintenance Shop were removed in 2019 from the asphalt lot southwest of the building. PAHs were detected above RSR criteria in soil collected below the diesel dispenser. Soil was excavated from the area, resampled, and found to contain concentrations of PAHs below RSR criteria. A total of 13.77 tons of impacted soil was excavated for off-site disposal. ETPH was detected at low concentrations below RSR criteria. ETPH and total xylenes were detected in groundwater at low concentrations but above the SWPC. PAHs were detected in groundwater at concentrations below RSR criteria. Based on the results, the excavation was backfilled and paved.

During the Phase II/III ESA, soil borings B-19 through B-22 were advanced to assess AOC-2/REC-2 (12). Soil samples were collected from the presumed bottom depth of the former USTs, the depth just above the identified water table, and/or depth of apparent impact (if identified). VOCs were detected in soil samples B-19 (13-15') and B-20 (6-8') with concentrations of ethylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes above the GB PMC in soil sample B-19 (13-15'). Groundwater monitoring well TMW-5 was installed in boring B-18. The VOC xylene was detected below RSR criteria in the groundwater sample collected from this monitoring well. The detections of VOCs in the soil and groundwater at this location are attributed to a release from the former gasoline UST.

RA-3: Hangar H1 – Former 10,000-Gal. UST [AOC-2/REC-2 (18)]

The former 10,000-gallon UST (noted only as gasoline) was installed in either 1950 or 1973 and removed in 1983. The UST was identified with "Parcel F" of the Site. A UST closure report or sampling data was not observed during the completion of the Phase I ESA.

During the Phase II/III ESA, soil borings B-34 and B-35 were advanced to assess AOC-2/REC-2 (18). Soil samples were collected from the presumed bottom depth of the former USTs, the depth just above the identified water table, and/or depth of apparent impact (if identified). The VOC n-propylbenzene was detected in soil sample B-35 (11-13') and its duplicate DUP-6 at concentrations below RSR criteria. Sampling completed in the area, including at other AOCs/RECs, indicate that the VOC detections are limited to the vicinity of soil boring B-35. The VOC detections are attributed to a release from the former 10,000-Gal. UST.

RA-4: Hangar H2 – Potential Former Three 4,000-Gal. USTs and Hydrant Dispenser [AOC-2/REC-2 (26)]

The former location of at least three 4,000-gallon gasoline USTs and hydrant dispenser were identified south of Hangar H3. UST closure reports or sampling data were not observed during the completion of the Phase I ESA.

During the Phase II/III ESA, soil borings B-66 through B-70 were advanced to assess AOC-2/REC-2 (26). Soil samples were collected from the presumed bottom depth of the former USTs, the depth just above the identified water table, and/or depth of apparent impact (if identified, see Appendix C). Several individual VOCs were detected in soil sample B-68 (8-10') at low concentrations below RSR criteria. Sampling completed in the areas indicate that the VOC detections are limited to the vicinity of boring B-68. The VOC detections are attributed to a release from the former USTs.

RA-5: Hangar H4 – Potential Former Three 4,000-Gal. USTs and Hydrant Dispenser [AOC-2/REC-2 (27)]

The area northeast of the building is the potential location of another three 4,000-gallon gasoline USTs and hydrant dispenser. UST closure reports or sampling data were not observed during the completion of the Phase I ESA.

During the Phase II/III ESA, soil borings B-71 through B-76 were advanced to assess AOC-2/REC-2 (27). Soil samples were collected from the presumed bottom depth of the former USTs, the depth just above the identified water table, and/or depth of apparent impact (if identified, see Appendix C). The VOCs n-propylbenzene and/or isopropylbenzene were detected in soil sample B-75 (5-7') and its duplicate DUP-11 at a concentrations below RSR criteria. Sampling completed in the area indicate that the VOC detections are generally limited to the vicinity of soil boring B-75; however, sampling was not completed south or east of this location. The VOC detections are attributed to a release from the former USTs.

RA-6: Hangar H4 – Potential Former Fuel Farm [AOC-2/REC-2 (28)]

The area east of H3 was identified on a historical figure depicting "fuel farm". UST closure reports or sampling data were not observed during the completion of the Phase I ESA.

During the Phase II/III ESA, soil borings B-77 through B-81 were advanced to assess AOC-2/REC-2 (28). Soil samples were collected from the presumed bottom depth of the former USTs, the depth just above the identified water table, and/or depth of apparent impact (if identified, see Appendix C). Several individual VOCs were detected in soil sample B-78 (9-10') at low concentrations below RSR criteria. Sampling completed in the area indicate that the VOCs detected are generally limited to the vicinity of soil boring B-78; however, sampling was not completed north or west of this location. The VOC detections are attributed to a release from the former USTs.

RA-7: Hangar H1 – Former Waste Oil AST [AOC-3 (6)]

A former 250-gallon waste oil AST (history unknown) was reportedly located northwest of the FBO Hangar H1.

During the Phase II/III ESA, soil borings B-44 and B-45 were advanced to assess AOC-3 (6), AOC-3 (7), and a portion of AOC-2/REC-2 (22). Soil samples were collected from the shallow

interval (representative of beneath the former AST location), the presumed bottom depth of the former USTs (for AOC-2/REC-2), the depth just above the identified water table, and/or depth of apparent impact (if identified, see Appendix C). ETPH was detected in soil sample B-44 (3-5') and its duplicate DUP-5 at concentrations of 7,500 mg/Kg and 8,400 mg/Kg, respectively, which are above the RES DEC of 500 mg/Kg, the I/C DEC of 2,500 mg/Kg, and the GB PMC of 2,500 mg/Kg. ETPH was also detected in soil sample B-45 (6-8') at a concentration below RSR criteria. Several individual VOCs were detected in in soil sample B-44 (3-5'), DUP-5, and B-44 (10-12'). Concentrations of the VOCs 4-isopropyltoluene, n-propylbenzene, and/or 1,2,4-trimethylbenzene were above their respective GB PMC in soil samples B-44 (3-5') and DUP-5. In addition, the PAH compounds 2-methylnaphthalene and naphthalene were detected in these samples with concentrations 2-methylnaphthalene above the GB PMC. The ETPH, VOCs, and PAHs detected at this location are attributed to a release from the former waste oil AST.

RA-8: CAA Fuel Farm [AOC-3 (10)]

One compartmentalized double-walled steel/concrete AST was located south of the CAA ARFF and northeast of the FBO Fuel Farm. The tanks and dispensers were installed around 2013.

During the Phase II/III ESA, soil boring B-91 was advanced downgradient of the AST within a grass-landscaped area. ETPH was detected in soil sample B-91 (3-5') at a concentration of 5,100 mg/Kg, which is above the RES DEC of 500 mg/Kg, the I/C DEC of 2,500 mg/Kg, and the GB PMC of 2,500 mg/Kg. In addition, a few individual VOCs were detected with concentrations of benzene and naphthalene above the GB PMC. Given the good condition of the AST, the ETPH and VOC impact is attributed to a release at this location from fueling operations.

RA-9: Former Fuel Box 1 [AOC-5/REC-3]

A former fuel line was depicted south-southeast of the State Police Hangar. In 1990, fuel box (1) was noted as the origination of a leak. Based on soil analytical results collected on September 14, 17, and 19, 1990, low level petroleum impacts remained in place below RSR criteria. Groundwater was not assessed at the time of the incident.

During the Phase II/III ESA, soil borings B-94 through B-98 were advanced to assess AOC-5/REC-3. Soil samples were collected from the interval believed to be below the former fuel line. COCs were not detected at concentrations above the laboratory reporting limits in any of the samples analyzed. Groundwater monitoring well TMW-10 was installed in boring B-94. COCs were not detected at concentrations above the laboratory reporting limits in the groundwater sample collected from this well.

RA-10: Hangar H4 [AOC-8 (5)]

During the completion of the Phase I ESA, Hangar H4 was used for the storage of aircraft. However, given the longstanding history of the Site, aircraft maintenance and repair may have occurred within this hangar.

During the Phase II/III ESA, soil boring B-108 was advanced down/cross-gradient of Hangar H1, adjacent to the bay door. ETPH was detected in soil sample B-108 (1-2') at a concentration of 620 mg/Kg, which is above the RES DEC of 500 mg/Kg but below the I/C DEC and GB PMC. In addition, elevated concentrations of PAHs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, carbazole, chrysene,

dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected above their respective RES DEC, I/C DEC, and GB PMC. The concentration of benzo(b)fluoranthene was also above the SEH threshold notification limit; however, as this sample was collected beneath the asphalt tarmac, notification to CTDEEP is not required. An elevated concentration of the metal vanadium below RSR criteria was also detected in this sample. Groundwater monitoring well TMW-12 was installed in boring B-108. COCs attributed to a release from this AOC were not detected above the laboratory reporting limits. Based on the sampling location and elevated concentrations of certain COCs that are unique to this sample, the ETPH, PAHs, and vanadium impact are attributed to a release from Hangar H4.

RA-11: T-Hangars [AOC-11]

T-Hangars are used by private individuals for the storage of their aircraft. Although restricted, minor maintenance or repair, washing, and deicing activities may have occurred. The T-Hangars are located south of H4. Minor black staining was observed to the concrete in both Unit 9 and Unit 14 in the 240 Lindbergh T-Hangar observed during the Site reconnaissance. Minor quantities of various petroleum products, paints, solvents, etc. were also observed.

During the Phase II/III ESA, soil borings B-118 through B-126 and B-143 through B-146 were advanced among the five T-Hangars. Soil samples were collected from either the shallow interval within hangar spaces or adjacent to bay doors (to assess surficial releases), the depth just above the identified water table, and/or depth of apparent impact (if identified, see Appendix C). A few individual VOCs were detected in soil sample B-121 (9-10') at concentrations below RSR criteria. Groundwater monitoring wells TMW13 and TMW-14 were installed in borings B-199 and B-126, respectively. COCs attributed to a release from this AOC were not detected above the laboratory reporting limits. The VOC detections are attributed to a release associated with the maintenance and repair of aircraft at the T-Hangars.

RA-12: Fill Material [AOC-13/REC-4]

The Site is located within the City of Hartford and surrounded by current and former industrial/commercial properties. Given the setting of the Site, there is potential for historical urban fill or dumped materials to be present at the Site. These materials often contain elevated concentrations of ETPH, PAHs, metals, as well as other related COCs. Previous testing completed in the northwest portion of the Site (as part of a Task 210) identified low-level concentrations typical of urban fill.

During the Phase II/III ESA, numerous soil samples were collected from the apparent fill layer, including from backfill at former UST graves. During the sampling, urban debris including asphalt, brick, and concrete were noted in several borings. Coal tar was not observed in any boring advanced at the Site. Samples collected from the fill layers exhibited concentrations of ETPH, PAHs, and elevated metals that did not appear to be associated with a specific release but instead likely attributed to apparent fill-related impacts. Fill-related impacts were generally noted in the following samples:

- B-3 (0-2'): elevated zinc below RSR criteria
- B-4 (8-10'): PAHs below RSR criteria
- B-16 (8-10'): PAHs below RSR criteria
- B-20 (6-8')/DUP-1: PAHs below RSR criteria
- B-21 (8-10'): PAHs below RSR criteria
- B-43 (13-15'): PAHs above RSR criteria and elevated lead below RSR criteria

- B-93 (1-2.5'): PAHs below RSR criteria
- B-105 (3-5')/DUP-3: PAHs above RSR criteria and ETPH below criteria
- B-112 (0-2'): PAHs above RSR criteria elevated lead below RSR criteria
- B-117 (0.25-2.25'): PAHs below RSR criteria
- B-118 (0-2'): PAHs and ETPH above RSR criteria
- B-120 (0-2'): PAHs and ETPH above RSR criteria
- B-123 (0-2'): PAHs below RSR criteria
- B-125 (0-2')/DUP-12: PAHs above RSR criteria
- B-132 (0-2'): PAHs above RSR criteria
- B-135 (0-2'): PAHs above RSR criteria
- B-145 (0.5-1'): elevated zinc below RSR criteria
- HA-1 (0-0.5'): PAHs, ETPH, and elevated lead below RSR criteria
- HA-2 (0-0.5'): PAHs below RSR criteria
- HA-3 (0-0.5'): PAHs above RSR criteria
- HA-4 (0-0.5'): PAHs and ETPH above RSR criteria
- HA-5 (0-0.5'): PAHs above RSR criteria and elevated lead below RSR criteria
- HA-7 (0-0.5'): PAHs below RSR criteria
- HA-9 (0-0.5'): PAHs and elevated lead below RSR criteria
- HA-10 (0-0.5'): elevated lead below RSR criteria
- HA-16 (0-0.5'): ETPH below RSR criteria
- HA-20 (0-0.5'): ETPH below RSR criteria
- HA-21 (0-0.5'): PAHs above RSR criteria
- HA-22 (0-0.5'): PAHs above RSR criteria and ETPH below RSR criteria
- HA-23 (0-0.5'): PAHs and ETPH below RSR criteria
- HA-43 (0-0.5'): PAHs below RSR criteria
- HA-45 (0-0.5'): PAHs below RSR criteria
- HA-46 (0-0.5'): PAHs above RSR criteria
- HA-47 (0-0.5'): PAHs above RSR criteria
- HA-49 (0-0.5'): elevated lead below RSR criteria
- HA-51 (0-0.5'): PAHs below RSR criteria
- HA-52 (0-0.5'): ETPH below RSR criteria
- HA-53 (0-0.5'): PAHs below RSR criteria
- HA-54 (0-0.5'): PAHs and elevated lead below RSR criteria
- HA-56 (0-0.5'): PAHs and elevated lead below RSR criteria
- HA-57 (0-0.5'): PAHs and ETPH below RSR criteria
- HA-58 (0-0.5'): PAHs below RSR criteria
- HA-59 (0-0.5')/DUP081023: PAHs and ETPH below RSR criteria

Given the active use of the airport, the industrial setting (including the former MIRA to the north and MDC to the south), and shallow sampling intervals of numerous samples, the impact identified in the above samples could be attributed in whole or part to airborne deposition (RA-30).

Groundwater monitoring completed at the Site also identified concentrations arsenic or acenaphthylene above the SWPC in groundwater samples collected from monitoring wells

TMW-4, TMW-7, TMW-12, TMW-19, TMW-23, and TMW-25 which are attributed to fill-related impacts.

RA-13: Historical Application of Pesticides [AOC-13/REC-4]

Pesticides, which may have contained lead and arsenic, are known to have been used at the Site. Pesticides were observed to be stored at a few locations at the Site during the Phase I ESA. It is also possible that herbicides were used at the Site to maintain the turf runway.

During the Phase II/III ESA, various soil samples were collected from the shallow interval to assess the historical application of pesticides and herbicides throughout the Site (excluding building envelope samples which are part of AOC-19). Pesticides were detected along taxiways and the turf runway in soil samples HA-4 (0-0.5'), HA-5 (0-0.5'), and the duplicate for HA-10 (0-0.5') at concentrations below RSR criteria.

RA-14: CAA Maintenance Shop – Pole-Mounted Transformer [AOC-14 (1)]

A pole-mounted transformer containing dielectric fluid was noted off the northeast corner of the CAA Maintenance Shop during the Phase I ESA. PCB labeling was not observed.

During the Phase II/III ESA, soil sample HA-11 (0-0.5') was collected beneath the pole-mounted transformer. ETPH was detected in this sample at a concentration of 3,600 mg/Kg, which is above the RES DEC of 500 mg/Kg, the I/C DEC of 2,500 mg/Kg, and the GB PMC of 2,500 mg/Kg. PCBs, which are another COC, were not detected at concentrations above the laboratory reporting limits.

RA-15: State Police Hangar – Pole- and Pad-Mounted Transformers [AOC-14 (2)]

Pole- and pad-mounted transformers containing dielectric fluids were noted east of the State Police Hangar in close proximity to each other. PCB labeling was not observed on any of the units.

During the Phase II/III ESA, soil samples HA-12A (0-0.5') and HA-12B (0-0.5') were collected beneath and adjacent to the pole- and pad-mounted transformers, respectively. ETPH was detected in each sample at concentrations of 700 mg/Kg and 1,200 mg/Kg, respectively, which are above the RES DEC of 500 mg/Kg but below the I/C DEC and GB PMC. PCBs, which are another COC, were not detected at concentrations above the laboratory reporting limits.

RA-16: Soil Pile [AOC-18]

A soil pile is located east of the State Police abandoned structure. The source of the soil pile is unknown. Various wood debris was observed around the pile. Several empty metal drums were observed near the pile at the northeast corner of the fence.

During the Phase II/III ESA, soil samples HA-24 (0-2') and HA-25 (0-2') were collected from the soil pile. Several individual PAHs were detected in soil sample HA-24 (0-2') at concentrations above RSR criteria. An elevated concentration of lead was also detected in this sample. A few individual PAHs were detected in soil sample HA-25 (0-2') at concentrations below RSR criteria.

RA-17 through RA-28: Building Envelope Releases [AOC-19]

Multiple Hazardous Building Material Assessment (HBMA) reports were observed for the Site documenting the presence of lead, ACM, and PCB materials at some of the northern structures, including the razed former Fire Rescue Office located off the southwest corner of the CAA Maintenance Garage. Leaching or deterioration of hazardous building materials (HBM) can directly impact surrounding soils. In addition, pesticides could have been applied along foundations. Demolition of former buildings could have released hazardous building materials.

During the Phase II/III ESA, the building envelope of each building was assessed for impacts associated with HBM and/or application of pesticides. Several releases were noted, as follows:

RA-17: Building Envelope – State Police Abandoned Building

Soil sample HA-26 (0-0.5') was collected from within the building envelope of the abandoned State Police building. An elevated concentration of lead below RSR criteria was detected indicating potential lead impacts from exterior building components. In addition, pesticides were detected below RSR criteria.

RA-18: Building Envelope – State Police Hangar

Soil samples HA-28 (0-0.5') and HA-29 (0-0.5') were collected from within the building envelope of the State Police Hangar. Elevated concentrations of lead below RSR criteria were detected in both samples indicating potential lead impacts from exterior building components. In addition, pesticides were detected below RSR criteria in soil sample HA-28 (0-0.5').

RA-19: Building Envelope – CAA Administration Building

Soil sample HA-30 (0-0.5') was collected from within the building envelope of the CAA Administration Building. Lead was detected at a concentration of 521 mg/Kg, which is above the RES DEC of 400 mg/Kg but below the I/C DEC of 1,000 mg/Kg, indicating potential lead impacts from exterior building components.

RA-20: Building Envelope – CAA Maintenance Garage

Soil sample HA-31 (0-0.5') was collected from within the building envelope of the CAA Maintenance Garage. An elevated concentration of lead below RSR criteria was detected indicating potential lead impacts from exterior building components. In addition, pesticides were detected below RSR criteria.

RA-21: Building Envelope – CAA Maintenance Shop

Soil sample HA-32 (0-0.5') was collected from within the building envelope of the CAA Maintenance Shop. An elevated concentration of lead below RSR criteria was detected indicating potential lead impacts from exterior building components. In addition, pesticides were detected below RSR criteria.

RA-22: Building Envelope – Hangar H1

Soil sample HA-34 (0.25-0.5') was collected from within the building envelope of Hangar H1. Pesticides were detected below RSR criteria.

RA-23: Building Envelope – Office/Restaurant

Soil sample HA-35 (0.25-0.5') was collected from within the building envelope of Hangar H1. Pesticides were detected below RSR criteria.

RA-24: Building Envelope – FAA Control Tower

Soil sample HA-39 (0-0.5') was collected from within the building envelope of the FAA Control Tower. PCBs were detected at a concentration of 0.53 mg/Kg, which is below the RES DEC of 1 mg/Kg and the I/C DEC of 10 mg/Kg. In addition, pesticides were detected below RSR criteria.

RA-25: Building Envelope – CT Aero Tech School

Soil sample HA-40 (0-0.5') was collected from within the building envelope of the CT Aero Tech School. Pesticides were detected below RSR criteria.

RA-26: Building Envelope – Engine Test Room

Soil sample HA-41 (0-0.5') was collected from within the building envelope of the CT Aero Tech School Engine Test Room. Pesticides were detected below RSR criteria.

RA-27: Building Envelope – T-Hangar (240 Lindbergh Drive)

Soil sample B-118 (0-2') was collected from within the building envelope of the 240 Lindbergh Drive T-Hangar. Pesticides were detected below RSR criteria.

RA-28: Building Envelope – T-Hangar (1-10)

Soil sample B-125 (0-2') was collected from within the building envelope of T-Hangars 1-10. Pesticides were detected below RSR criteria.

RA-29: Former Police Firing Range [AOC-22]

A former police pistol range was depicted in a 1936 figure in the southern portion of the property when the airport.

During the Phase II/III ESA, soil samples HA-43 (0-0.5'), HA-44 (0-0.5'), HA-45 (0-0.5'), HA-46 (0-0.5'), HA-47 (0-0.5'), B-135 (0-2') were collected from this AOC. Elevated concentrations of lead was detected in soil samples HA-46 (0-0.5') at 406 mg/Kg, HA-47 (0-0.5') at 387 mg/Kg, and B-135 (0-2') at 250 mg/Kg. The concentration of lead in soil sample HA-46 (0-0.5') was above the RES DEC of 400 mg/Kg but below the I/C DEC of 1,000 mg/Kg.

RA-30: Airborne Deposition of Impact [AOC-24]

The Site is located in an industrial setting and bordered to the north by the former MIRA property and to the south by the MDC. Further, the Site has been in operation as an airport for approximately 100 years. As such, there is a potential for impact associated with emissions from nearby industrial properties and aircraft to impact the surficial soil at the Site.

During the Phase II/III ESA, numerous soil samples were collected from the shallow soil (within 2 feet of the ground surface) with the purpose of investigating other AOCs/RECs that were identified at the Site. ETPH, PAH, and elevated metals were detected in the shallow soil that could be attributed in whole or part to this RA, as indicated under the RA-12 discussion. In addition, PFAS were detected in all surficial soil samples analyzed. Although an emergent contaminant of concern with limited information regarding background conditions, PFAS are known to be prevalent in the environment and the detections in the soil are likely attributed to airborne deposition rather than a direct release at the Site. One sample, which was collected near the MDC, contained a concentration of total PFAS above the GB PMC. This exceedance may be attributed to emissions from the MDC as wastewater treatment plants are known to be a concentration point for PFAS compounds.

10.5 Groundwater Conditions

Groundwater samples were collected from monitoring wells located throughout the Site and were used to evaluate groundwater conditions at the Site, including groundwater migrating from off-Site properties of concern. The following COCs have been identified in groundwater based on sampling conducted to date:

- Depth to groundwater ranges from approximately 6.09 to 11.39 feet below ground surface.
- Non-aqueous phase liquid (NAPL)/free product was not identified in any of the groundwater monitoring wells sampled.
- The VOC m,p-xylene was detected at a concentration below RSR criteria in the groundwater sample collected from monitoring well TMW-5. Monitoring well TMW-5 is located downgradient of former gasoline and diesel USTs at the CAA Maintenance Shop. This data is indicative of a release from the former gasoline UST at this location.
- The VOC cis-1,2-dichloroethene was detected at a concentration below RSR criteria in the groundwater sample collected from monitoring well TMW-7. Monitoring well TMW-5 is located east and downgradient of Hangar H2. This data is indicative of a potential release associated with this hangar.
- PAHs including acenaphthene, acenaphthylene, benzo(a)anthracene, phenanthrene, and/or pyrene were generally detected below RSR criteria in groundwater samples collected from monitoring wells TMW-14, TMW-18, and TMW-23. The detection of acenaphthylene in the groundwater sample collected from monitoring well TMW-23 was above the SWPC. Given the PAHs detected and the locations of these monitoring wells at the Site, the source of the impact is likely attributed to impacted fill material.
- Metals were detected in each groundwater sample collected from the Site and generally appeared to be indicative of naturally occurring concentrations. However, arsenic was detected at concentrations above the SWPC in groundwater samples collected from monitoring wells TMW-4, TMW-7, TMW-12, TMW-19, TMW-25. In addition, elevated concentrations of barium below RSR criteria was detected in groundwater samples collected from monitoring wells TMW-4, and MW-2. An elevated concentration of chromium below RSR criteria was detected in the groundwater sample collected from monitoring well MW-1. Given the locations of these monitoring wells at the Site, the source of the impact is likely attributed to impacted fill material.
- PFAS were detected in groundwater samples collected from monitoring wells TMW-3, TMW-6, TMW-15, TMW-18, TMW-23, and TMW-25. There are no applicable,

established groundwater criteria for PFAS. Given the prevalence of PFAS in the environment, there could be multiple sources for the identified impact. However, it is possible that the PFAS impact is attributed to on-Site sources as it was observed at the CAA Maintenance Shop, CAA Maintenance Garage, CT Aero Tech School, and the CAA ARFF during the Phase I ESA site assessment. In addition, multiple aircraft accidents have been associated with the airport and there is a potential that firefighting foam containing PFAS was used. The groundwater sample collected from monitoring well TMW-18, which is a downgradient monitoring well, contained a concentration of PFAS that was more than 12 times the next highest concentration. This is indicative of a release in the vicinity of the runways or potentially from lagoons associated with the MDC surcharging groundwater that are located near this monitoring well.

The acenaphthylene and arsenic impact above RSR criteria is likely attributed to fill impacts and compliance could be demonstrated using downgradient monitoring wells (upgradient of the ultimate surface water discharge) and/or the calculation of an alternative SWPC. There are currently no established criteria for PFAS at a GB groundwater area.

Section 11 Summary and Conclusions

Tighe & Bond, Inc. (Tighe & Bond) has completed a Phase II/Phase III Environmental Site Assessment on behalf of BFJ Planning for the Hartford-Brainard Airport located at 233 Maxim Road/Lindbergh Drive in Hartford, Connecticut. The Phase II/III ESA was completed as part of an assessment of the current and potential alternative uses of the Site.

Purpose and Objectives

The purpose of the Phase II/III ESA was to collect sufficient information to determine whether or not a release has occurred at AOCs/RECs identified during the completion of the Phase I ESA for the site and, to the extent possible given the scope of the project, characterize the extent of the releases. The data collected was used to determine whether releases have occurred at the site and if so to determine if remedial actions are required to achieve compliance with the CTDEEP RSRs. This Phase II/III ESA report has been prepared to document the activities completed by Tighe & Bond between April and June 2023, which were in accordance with the CTDEEP SCGD (dated September 2007, revised December 2010) and under the direction of a CT LEP.

Site Description and History

The Site is comprised of one parcel of land totaling approximately 200 acres, located at 233 Maxim Road/Lindbergh Drive in Hartford, CT. The Site is generally bounded by commercial/industrial properties to the north, south, and west and the Clark Dike to the east, which is a flood control structure associated with the abutting Connecticut River. The Site is currently leased by the State of the Connecticut to several tenants predominately for aircraft use. The ConnDOT is identified as the airport owner, with several main tenants including the Connecticut State Police and Connecticut Urban Search and Rescue (former CT Air National Guard), Hartford Jet Center, VIP Avionics, and the CT Aero Tech School. The Site is currently improved with 20 structures located along the northern and western property boundaries. The airport structures generally consist of maintenance garages, the FAA control tower, various offices, classrooms, and two fuel farms. Each structure is surrounded by paved parking and vehicle access or turf areas. The main helicopter pad is located east of building H1 (20 Lindbergh Drive). A smaller helicopter pad is located east of building H4. A chain-link fence encompasses the entire Site at the property boundaries. The Site includes three aircraft runways identified as 2-20, runway 11-29, and a turf runway. Each runway is surrounded by turf and limited paved access roadways/taxiways. The Site contains 20 buildings that are generally located along the western and northern portions of the Site. The remainder of the Site consists of the runways, taxiways, tarmacs, and paved parking areas.

The Site was historically utilized as cow pasture prior to development as the Hartford-Brainard Airport in 1921. The Site, known as Brainard Field, was dedicated as the first municipal "flying field" in New England. The Site is historically known as the first landing spot after Charles Lindbergh's first transatlantic flight. The Connecticut National Guard also utilized the Site for pilot training from 1923 until post World War II. The original airport totaled 351 acres and accommodated four landing strips, three of which have since been abandoned. In 1959, the State of Connecticut purchased the airport, including the current 200 acres and the existing runway 2-20. The crosswind runway 11-29 was constructed in 1966 to provide additional landing in extreme east/west wind conditions.

Historically, the Site has been prone to severe flooding due to the proximity of the Connecticut River. Following significant flooding in 1936 and 1938, the US Army Corps of Engineers constructed the Clark Dike that abuts the eastern property boundary to prevent future events.

Site Regulatory Status

The site appears to meet the definition of an "Establishment", as defined by Section 22a-134 (the CT Transfer Act) of the Connecticut General Statutes (CGS), due to multiple generations of hazardous waste (D001-Ingitable Waste) over 100kg in one month and the identification of historic aircraft maintenance and repair facilities. If a qualifying transfer were to occur, the Site would be subject to the CT Transfer Act, which requires that a Certifying Party be identified that would be responsible for investigating and, as needed, remediating the Site in accordance with prevailing standards and guidelines, including the CTDEEP SCGD and RSRs. The Property Transfer Program requires all AOCs be fully investigated in accordance with the CTDEEP SCGD and an LEP submit a verification, indicating the Site is in compliance with the CTDEEP RSRs.

Site Physical and Hydrogeological Site Setting

The Site topography is generally flat sloping gently to the east toward the man-made Clark Dike, which is along the eastern Site boundary. The elevation of the Dike is reported to be 32 feet above the NGVD. Regional topography around the Site is similarly flat. Groundwater flow is in a southerly direction towards Folly Brook/Wethersfield Cove and the Connecticut River. Wethersfield Cove discharges into the Connecticut River. The Connecticut River is considered tidal up to approximately Windsor Locks, CT and therefore, groundwater on the Site may be subject to regional ebb and flow. The Connecticut River and Wethersfield Cove are designated by the CTDEEP as Class "SB" surface water bodies. Folly Brook north of Wethersfield Cover is designated by the CTDEEP as a Class "A" surface water body.

The Federal Emergency Management Agency (FEMA) Flood Insurance Maps indicate that the Site is located within an area of reduced flood risk due to levee, Zone X (Map 09003C0507G, dated September 16, 2011). In addition, according to the Natural Diversity Data Base (NDDB) Map (CTDEEP, June 2023), the eastern and southern portions of the Site are located within an area mapped with state and federally listed species.

Groundwater underlying the site is classified by the CTDEEP as GB and was encountered depths between 6.09 and 11.39 feet below ground surface during the completion of Phase II/III ESA activities. At the time of gauging, groundwater flow was south/southwesterly.

Surficial materials underlying the site are mapped as alluvium overlying fines. According to the National Resources Conservation Service (NRCS) Web Soil Survey (WSS) for the State of Connecticut (NRCS Webpage, 2009), soil on the eastern portion of the Site is mapped as Winooski silt loam. The remainder of the Site is mapped as Urban Land. During the completion of Phase II/III ESA, a combination of brown fine to medium sand and silt of varying depths overlying a silt/clayey silt were generally observed throughout much of the Site. Urban debris consisting of asphalt, brick, and concrete were noted in several borings (see Appendix C for additional information). Bedrock was not encountered during Phase II investigation activities.

Areas of Concern

A total of 1 REC and 24 AOCs and/or RECs have been identified by Tighe & Bond:

- REC-1: Historical Releases (throughout developed portions of the Site)
- AOC-1: Historical Hangar Operations (two locations)
- AOC-2/REC-2: Underground Storage Tanks (twenty-eight locations)
- AOC-3: Aboveground Storage Tanks (twelve locations)
- AOC-4: Former Hazardous Waste Storage Container
- AOC-5/REC-3: Former Fuel Distribution Boxes and Product Delivery Line
- AOC-6: Oil/Water Separators (eight locations)
- AOC-7: Airport Maintenance Facilities (three locations)
- AOC-8: Aircraft Maintenance and Repair Facilities (five locations)
- AOC-9: Aircraft Deicing
- AOC-10: Fuel Truck Parking (three locations)
- AOC-11: T-Hangar Buildings (five adjacent locations)
- AOC-12: CT Aero Tech School
- AOC-13/REC-4: Soil and Groundwater Impacts from Historical Airport Activities and/or Historical Fill Utilized at the Site
- AOC-14: Electrical Transformers (multiple locations)
- AOC-15: Diesel Generators (four locations)
- AOC-16: Dumpsters (seven locations)
- AOC-17: Main Regional Jet Fuel Supply Line
- AOC-18: Soil Pile
- AOC-19: Potential Surficial Impacts from Hazardous Building Materials (past and present building envelopes)
- AOC-20: Aqueous Film-Forming Foam (six locations)
- AOC-21/REC-5: Aircraft Accidents
- AOC-22: Former Police Firing Range
- AOC-23: Outfalls at Connecticut River (two locations)
- AOC-24: Potential Airborne Deposition of Impact
- Off-Site AOC: Potentially Impacted Groundwater Migrating to the Site from Off-Site Sources

In general, these AOCs consist of specific areas at the Site that were identified during the completion of the Phase I ESA site reconnaissance or from historical documentation, including records regarding former USTs. Some overlap exists with respect to releases associated with historical releases (REC-1), historical hangar operations (AOC-1), historical airport activities and/or historical fill utilized at the Site (AOC-13/REC-4), aircraft accidents (AOC-21/REC-5), and potentially others. However, based on the data obtained, the primary COCs detected for these overlapping AOCs do not appear to comingle.

Phase II/III ESA Findings and Conclusions

Based on Phase II/III ESA activities conducted to date, COCs identified in soil and/or groundwater include ETPH, VOCs, SVOCs (mostly PAHs), metals, PCBs, and/or pesticides.

A total of 30 RAs were identified among 12 AOCs/RECs, as follows:

- RA-1: Historical Release of Aviation Gasoline
- RA-2: CAA Maintenance Shop - Former Gasoline and Diesel USTs and Dispenser Island
- RA-3: Hangar H1 - Former 10,000-Gal. UST
- RA-4: Hangar H2 - Potential Former Three 4,000-Gal. USTs and Hydrant Dispenser
- RA-5: Hangar H4 - Potential Former Three 4,000-Gal. USTs and Hydrant Dispenser
- RA-6: Hangar H4 - Potential Former Fuel Farm
- RA-7: Hangar H1 - Former Waste Oil AST
- RA-8: CAA Fuel Farm
- RA-9: Former Fuel Box 1
- RA-10: Hangar H4
- RA-11: T-Hangars
- RA-12: Fill Material (site-wide)
- RA-13: Historical Application of Pesticides (site-wide)
- RA-14: CAA Maintenance Shop - Pole-Mounted Transformer
- RA-15: State Police Hangar - Pole- and Pad-Mounted Transformers
- RA-16: Soil Pile
- RA-17: Building Envelope – State Police Abandoned Building
- RA-18: Building Envelope – State Police Hangar
- RA-19: Building Envelope – CAA Administration Building
- RA-20: Building Envelope – CAA Maintenance Garage
- RA-21: Building Envelope – CAA Maintenance Shop
- RA-22: Building Envelope – Hangar H1
- RA-23: Building Envelope – Office/Restaurant
- RA-24: Building Envelope – FAA Control Tower
- RA-25: Building Envelope – CT Aero Tech School
- RA-26: Building Envelope – Engine Test Room
- RA-27: Building Envelope – T-Hangar (240 Lindbergh Drive)
- RA-28: Building Envelope – T-Hangar (1-10)
- RA-29: Former Police Firing Range
- RA-30: Airborne Deposition of Impact (site-wide)

The detected concentrations of ETPH, VOCs, several individual SVOCs, lead, and/or PFAS within RA-2, RA-7, RA-8, RA-10, RA-12, RA-14, RA-15, RA-16, RA-19, RA-29, and RA-30 were above the RES DEC, I/C DEC, and/or GB PMC. The detected concentrations of COCs within the remaining RAs were below established RSR criteria.

One round of groundwater monitoring was conducted during the Phase II/III ESA that identified concentrations of arsenic above the SWPC in groundwater samples collected from monitoring wells TMW-4, TMW-7, TMW-12, TMW-19, and TMW-25. The PAH acenaphthylene was also detected above the SWPC in the groundwater sample collected from monitoring well TMW-23. Other elevated metals and PAHs were detected in groundwater samples collected

from other wells at concentrations below RSR criteria. The metals and PAHs detected in the groundwater at the Site are indicative of fill-related impacts (RA-12).

Low-level concentrations of the VOCs m,p-xylene and cis-1,2-dichloroethene were detected in groundwater samples collected from monitoring wells TMW-5 and TMW-7, respectively. The m,p-xylene detected from the TMW-5 groundwater sample is indicative of impacts related to former USTs at the CAA Maintenance Shop (RA-2). The cis-1,2-dichloroethene detected from the TMW-7 groundwater sample is indicative of impacts related to Hangar H2.

PFAS was detected in groundwater samples collected from monitoring wells TMW-3, TMW-6, TMW-15, TMW-18, TMW-23, and TMW-25. There are no applicable, established groundwater criteria for PFAS. Given the prevalence of PFAS in the environment, there could be multiple sources for the identified impact. However, it is possible that the PFAS impact is attributed to on-Site sources given the storage and potential use of AFFF at the Site. The groundwater sample collected from monitoring well TMW-18, which is a downgradient monitoring well, contained a concentration of PFAS that was more than 12 times the next highest concentration. This is indicative of a release in the vicinity of the runways or potential impact from lagoons near this monitoring well that are present on the MDC property.

Preliminary Remediation Planning

Based on the results of this Phase II/III ESA, continued use of the Site as an airport or potential future use as residential, recreational, commercial, or industrial is not precluded. Remediation or installation of institutional controls would be required as part of any future redevelopment. This would include the removal of soil impacts above RSR criteria (hot spot removal) and/or capping in place in accordance with the provisions of the RSRs. Depending on the redevelopment plan, impacted soil could be capped under proposed buildings. Additionally, soil and groundwater management would be required during construction activities under a Soils and Materials Management Plan if disturbed during construction.

Based on investigation activities and findings obtained to date, a preliminary remedial scenario for soil and groundwater would likely include a conventional approach consisting of remediation by excavation and off-site disposal (removal of hot spots). A similar approach could be used for the fill material and/or surficial soil with potential airborne impacts (RA-12 and RA-30, respectively); however, if additional assessment and/or hot spot removal was completed and enough, suitable data was obtained, compliance with the RSRs could be demonstrated using statistical analysis (i.e., calculation of the 95% upper confidence limit).

Depending on the proposed redevelopment scenario, the identified impact could be capped, making it inaccessible as allowed by the CTDEEP RSRs as a mechanism for DEC compliance. GB PMC exceedances have been identified; however, in accordance with the RSRs, these exceedances could be rendered environmentally isolated based on the proposed redevelopment of the Site.

As RES DEC and I/C DEC exceedances have been identified in most samples, compliance using an Environmental Use Restriction (EUR) restricting residential use does not appear to be an appropriate approach for remediation.

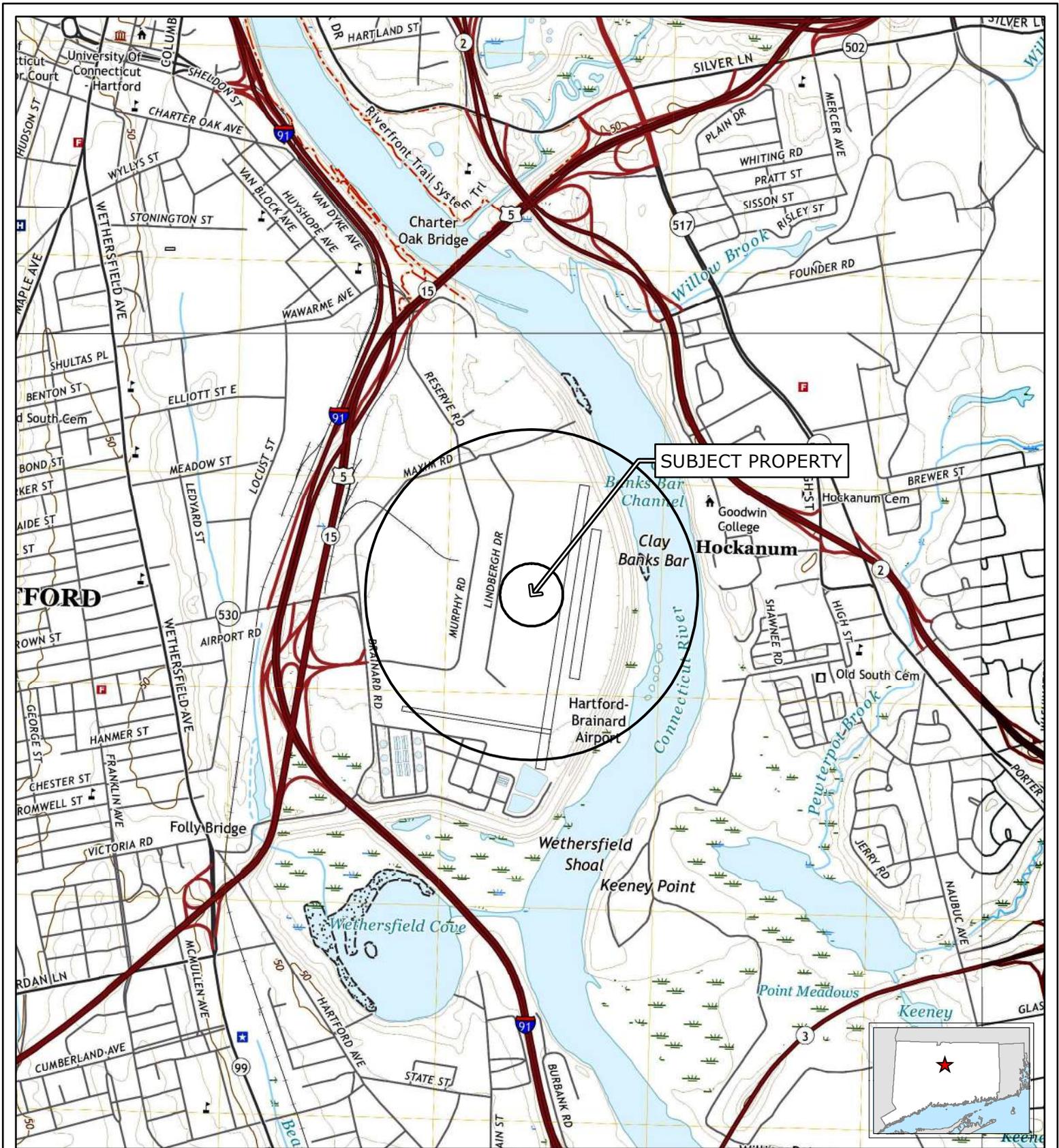
At this time, groundwater does not appear to be significantly impacted by the releases identified at the Site. Although arsenic and acenaphthylene were detected above the SWPC, compliance could be demonstrated using downgradient monitoring wells (upgradient of the ultimate surface water discharge) and/or the calculation of an alternative SWPC. However,

PFAS were detected in most groundwater samples analyzed. The groundwater sample collected from monitoring well TMW-18, which is a downgradient monitoring well, contained a concentration of PFAS that was more than 12 times the next highest concentration. Although there are no established criteria for groundwater in GB groundwater areas, PFAS is an emerging contaminant and future regulatory changes may impose remedial obligations for the Site.

Based on the findings of the Phase II/III ESA and in accordance with the assessment of the current and potential alternative uses of the Site, a Preliminary Remedial Action Plan (RAP) with an evaluation of remedial alternatives will be developed that will discuss strategies for remediation based on the data obtained to date.

Tighe&Bond

APPENDIX A

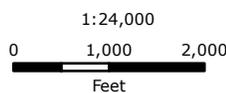


SUBJECT PROPERTY

**FIGURE 1
SITE LOCATION MAP**

Hartford-Brainard Airport
20 Lindbergh Drive
Hartford, Connecticut

Based on USGS Topographic Map for
Hartford South, CT Revised 2021.
Hartford North, CT Revised 2021.
Manchester, CT Revised 2021.
Glastonbury, CT Revised 2021.
Contour Interval Equals 1.0 ft.
Circles indicate 500-foot and half-mile radii



Tighe & Bond

June 2023

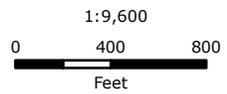


LEGEND

- Subject Property
- Approximate Parcel Boundary
- CT Municipal Boundary



Based on Nearmap Imagery (April 8th, 2023)
 Parcels Courtesy of the CT Office of Policy and Management.



**FIGURE 2
 ORTHOPHOTOGRAPH**

Hartford-Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut

June 2023



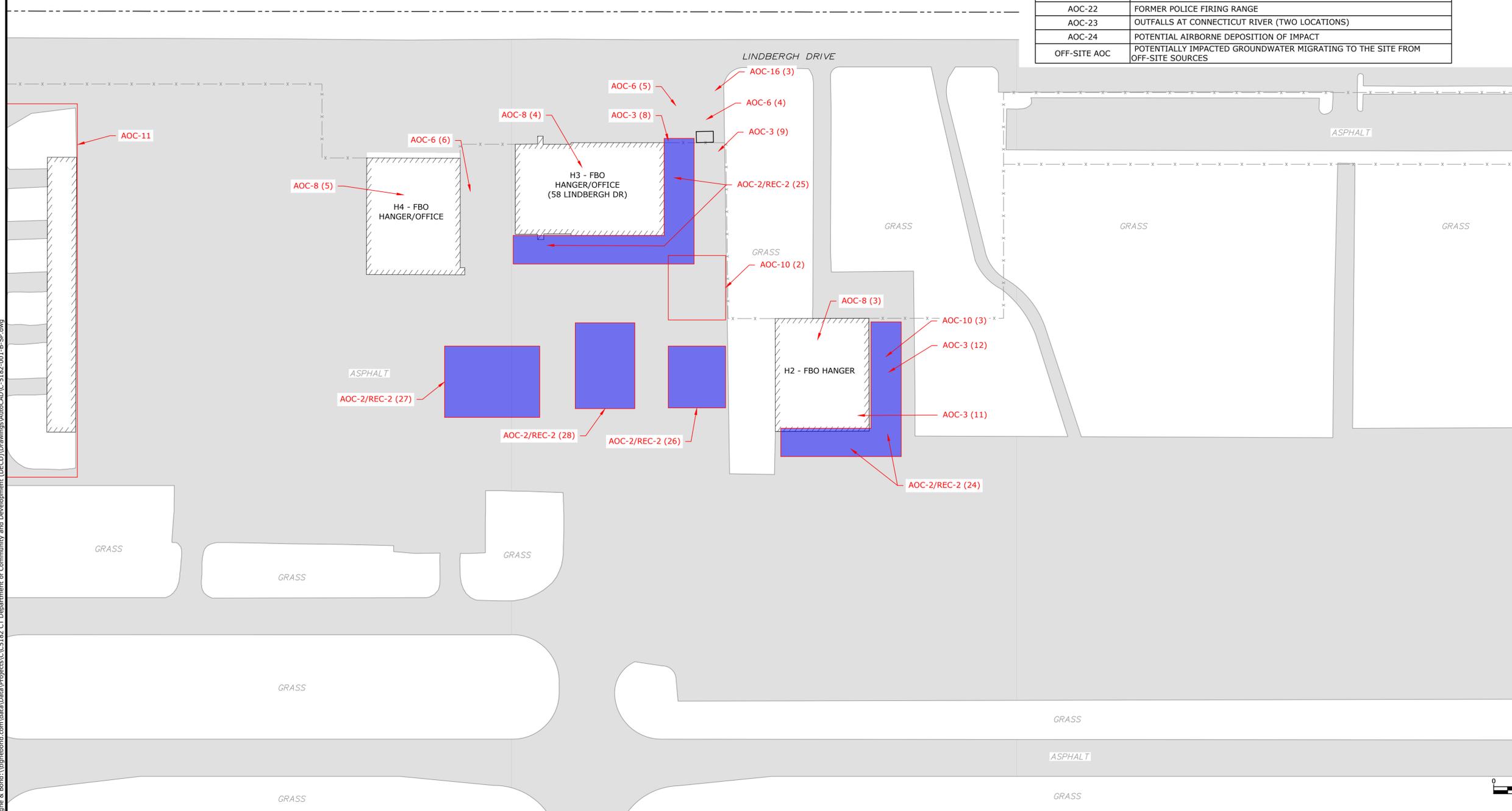
LEGEND

- PROPERTY BOUNDARY
- EDGE OF ROAD
- ON-SITE PAVED SURFACE
- x-x- CHAIN LINK FENCE
- /// BUILDING
- POTENTIAL FORMER UST

NOTES

1. SEE FIGURE 3 FOR MAP REFERENCES.

AREAS OF CONCERN/RECOGNIZED ENVIRONMENTAL CONDITION	
AOC # / REC #	DESCRIPTION
REC-1	HISTORICAL RELEASES (DEVELOPED PORTIONS OF THE SITE)
AOC-1	HISTORICAL HANGAR OPERATIONS (TWO LOCATIONS)
AOC-2/REC-2	UNDERGROUND STORAGE TANKS (TWENTY-EIGHT LOCATIONS)
AOC-3	ABOVEGROUND STORAGE TANKS (TWELVE LOCATIONS)
AOC-4	FORMER HAZARDOUS WASTE STORAGE CONTAINER
AOC-5/REC-3	FORMER FUEL DISTRIBUTION BOXES AND PRODUCT DELIVERY LINE
AOC-6	OIL/WATER SEPARATOR (EIGHT LOCATIONS)
AOC-7	AIRPORT MAINTENANCE FACILITY (THREE LOCATIONS)
AOC-8	AIRPORT MAINTENANCE AND REPAIR FACILITY (FIVE LOCATIONS)
AOC-9	AIRCRAFT DEICING
AOC-10	FUEL TRUCK PARKING (THREE LOCATIONS)
AOC-11	T-HANGAR BUILDINGS (FIVE TOTAL)
AOC-12	CT AERO TECH SCHOOL
AOC-13/REC-4	SOIL AND GROUNDWATER IMPACTS FROM HISTORICAL AIRPORT ACTIVITIES AND/OR HISTORICAL FILL UTILIZED AT THE SITE
AOC-14	ELECTRICAL TRANSFORMERS (MULTIPLE LOCATIONS)
AOC-15	DIESEL GENERATORS (FOUR LOCATIONS)
AOC-16	DUMPSTERS (SEVEN LOCATIONS)
AOC-17	MAIN REGIONAL JET FUEL SUPPLY LINE
AOC-18	SOIL PILE
AOC-19	POTENTIAL SURFICIAL IMPACTS FROM HAZARDOUS BUILDING MATERIALS (PAST AND PRESENT BUILDING ENVELOPES)
AOC-20	AQUEOUS FILM-FORMING FOAM (SIX LOCATIONS)
AOC-21/REC-5	AIRCRAFT ACCIDENTS
AOC-22	FORMER POLICE FIRING RANGE
AOC-23	OUTFALLS AT CONNECTICUT RIVER (TWO LOCATIONS)
AOC-24	POTENTIAL AIRBORNE DEPOSITION OF IMPACT
OFF-SITE AOC	POTENTIALLY IMPACTED GROUNDWATER MIGRATING TO THE SITE FROM OFF-SITE SOURCES



**Hartford -
Brainard Airport
Phase II ESA**

BFJ Planning

Hartford,
Connecticut

MARK	DATE	DESCRIPTION
PROJECT NO:	C-5182-001	
DATE:	8/30/2023	
FILE:	C-5182-001-B-SP.dwg	
DRAWN BY:	IFA	
CHECKED BY:	JLL/MEP	
APPROVED BY:	JTO	

SITE PLAN - DETAIL 1

SCALE: AS SHOWN

FIGURE 3-1



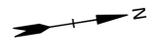


FIGURE 4-1 SAMPLE INDEX

SOIL BORINGS		HAND AUGERS
B-57/TMW-7	B-79	HA-3
B-58	B-80	HA-4
B-59	B-81	HA-36
B-60	B-88	HA-38
B-61	B-89	
B-62/TMW-8	B-90	
B-63	B-92	
B-64	B-101	
B-65	B-102	
B-66	B-108/TMW-12	
B-67	B-115	
B-68	B-116	
B-69	B-117	
B-70	B-125	
B-71	B-129/TMW-16	
B-72	B-130/TMW-17	
B-73	B-133	
B-74	B-142/TMW-25	
B-75	B-143	
B-76	B-144	
B-77	B-145	
B-78	B-146	

NOTES

1. ALL SAMPLE LOCATIONS ARE APPROXIMATE.
2. SEE FIGURE 3 FOR MAP REFERENCES.
3. SEE LIMITED PHASE II ESA REPORT, SECTION 7.1 FOR LIST OF PROPOSED SAMPLE LOCATIONS THAT WERE NOT COMPLETED.

LEGEND

- PROPERTY BOUNDARY
- EDGE OF ROAD
- ▭ ON-SITE PAVED SURFACE
- - - - - EDGE OF GRAVEL
- x - x - CHAIN LINK FENCE
- ▨ BUILDING
- 2 RUNWAY NUMBER
- ⊕ HAND AUGER
- SOIL BORING
- ⊕ MONITORING WELL (TIGHE & BOND)
- ⊕ EXISTING MONITORING WELL



Hartford - Brainard Airport Phase II ESA

BFJ Planning

Hartford, Connecticut

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PROJECT NO:	C-5182-001	
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DRAWN BY:	IFA	
CHECKED BY:	JLL/MEP	
APPROVED BY:	JTO	

SAMPLE LOCATION PLAN - DETAIL 1

SCALE: AS SHOWN



FIGURE 4-1

Last Saved: 8/30/2023 1:19pm By: IAdomiel
 Plotted On: Aug 30, 2023 1:19pm By: IAdomiel
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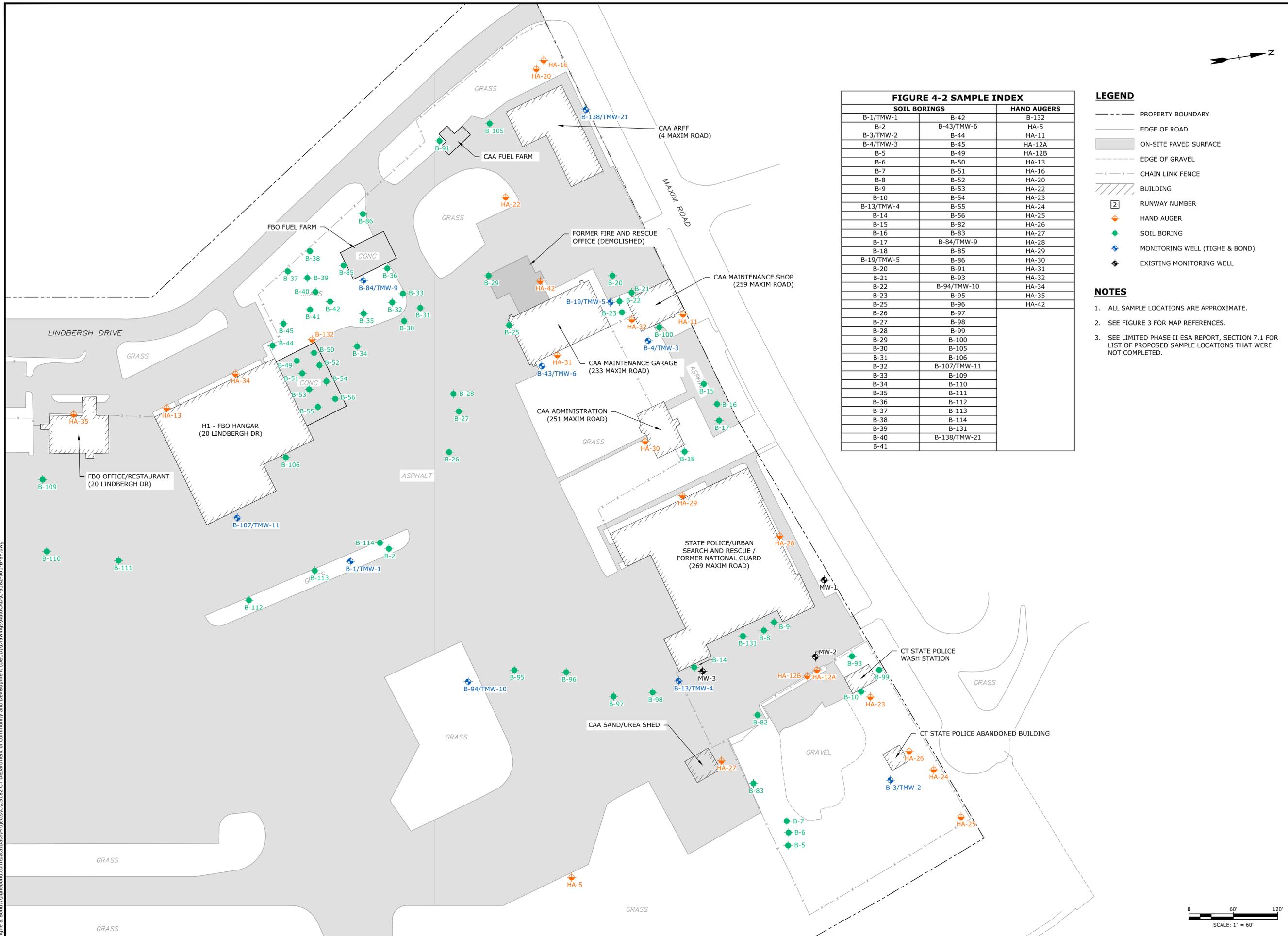


FIGURE 4-2 SAMPLE INDEX

SOIL BORINGS		HAND AUGERS
B-1/TMW-1	B-42	B-132
B-2	B-43/TMW-6	HA-5
B-3/TMW-2	B-44	HA-11
B-4/TMW-3	B-45	HA-12A
B-5	B-49	HA-12B
B-6	B-50	HA-13
B-7	B-51	HA-16
B-8	B-52	HA-20
B-9	B-53	HA-22
B-10	B-54	HA-23
B-13/TMW-4	B-55	HA-24
B-14	B-56	HA-25
B-15	B-82	HA-26
B-16	B-83	HA-27
B-17	B-84/TMW-9	HA-28
B-18	B-85	HA-29
B-19/TMW-5	B-86	HA-30
B-20	B-91	HA-31
B-21	B-93	HA-32
B-22	B-94/TMW-10	HA-34
B-23	B-95	HA-35
B-25	B-96	HA-42
B-26	B-97	
B-27	B-98	
B-28	B-99	
B-29	B-100	
B-30	B-105	
B-31	B-106	
B-32	B-107/TMW-11	
B-33	B-109	
B-34	B-110	
B-35	B-111	
B-36	B-112	
B-37	B-113	
B-38	B-114	
B-39	B-131	
B-40	B-138/TMW-21	
B-41		

- LEGEND**
- PROPERTY BOUNDARY
 - EDGE OF ROAD
 - ON-SITE PAVED SURFACE
 - - - - - EDGE OF GRAVEL
 - x - x - CHAIN LINK FENCE
 - ▨ BUILDING
 - [2] RUNWAY NUMBER
 - ◆ HAND AUGER
 - ◆ SOIL BORING
 - ◆ MONITORING WELL (TIGHE & BOND)
 - ◆ EXISTING MONITORING WELL

- NOTES**
- ALL SAMPLE LOCATIONS ARE APPROXIMATE.
 - SEE FIGURE 3 FOR MAP REFERENCES.
 - SEE LIMITED PHASE II ESA REPORT, SECTION 7.1 FOR LIST OF PROPOSED SAMPLE LOCATIONS THAT WERE NOT COMPLETED.

Hartford - Brainard Airport Phase II ESA

BFJ Planning

Hartford, Connecticut

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DRAWN BY:	IFA
CHECKED BY:	JLL/MEP
APPROVED BY:	JTO

SAMPLE LOCATION PLAN - DETAIL 2

SCALE: AS SHOWN

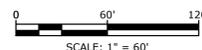


FIGURE 4-2

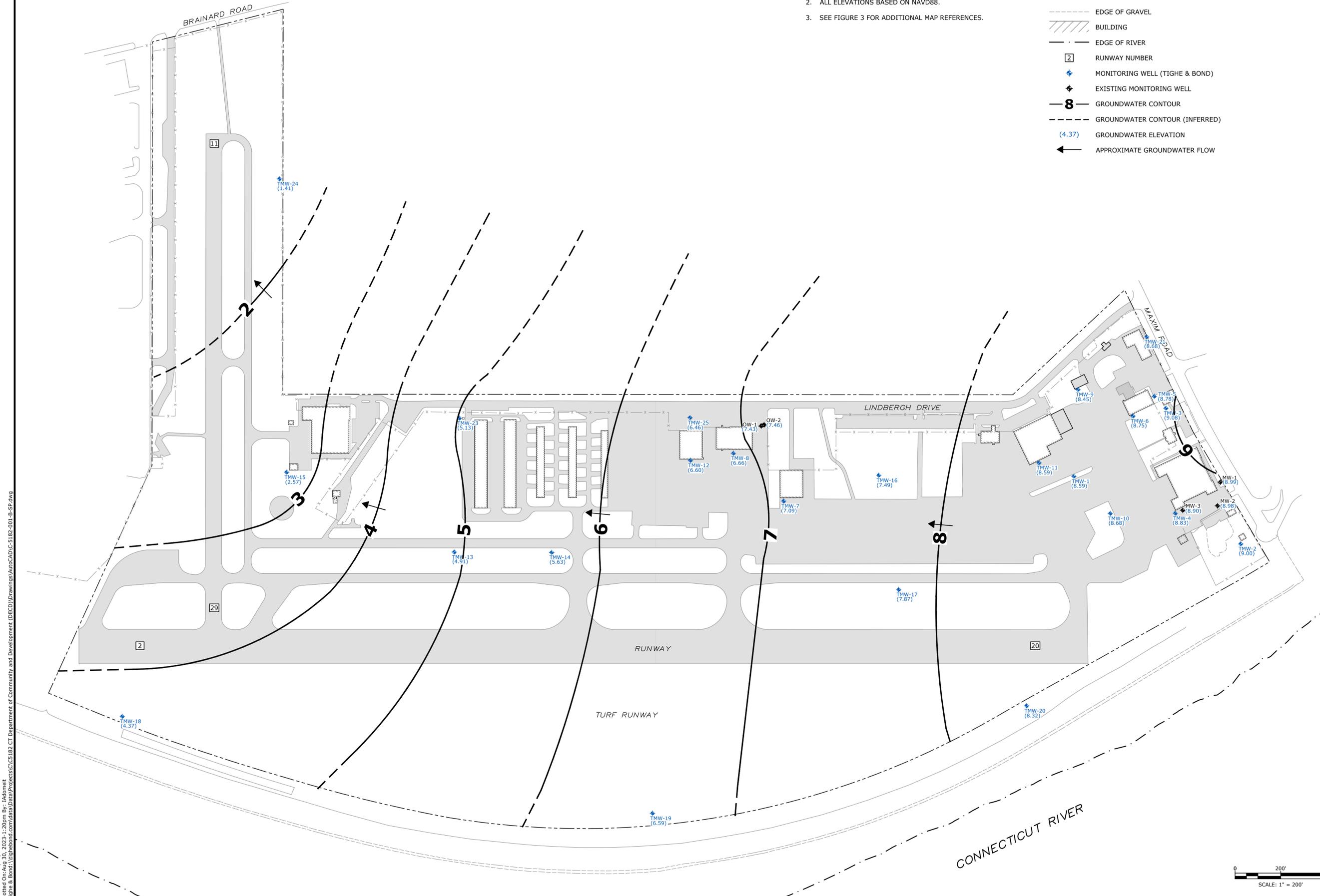
Last Saved: 8/30/2023 1:20pm By: IAdoniel
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 Tighe & Bond: \\tighetbond.com\data\Projects\C5182 CT Department of Community and Development (DECD)\Drawings\AutoCAD\C-5182-001-B-SP.dwg

NOTES

1. MONITORING WELLS ELEVATIONS WERE SURVEYED BY PEREIRA ENGINEERING ON JUNE 20, 2023.
2. ALL ELEVATIONS BASED ON NAVD88.
3. SEE FIGURE 3 FOR ADDITIONAL MAP REFERENCES.

LEGEND

- PROPERTY BOUNDARY
- EDGE OF ROAD
- - - EDGE OF GRAVEL
- ▨ BUILDING
- · - · - EDGE OF RIVER
- 2 RUNWAY NUMBER
- ◆ MONITORING WELL (TIGHE & BOND)
- ◆ EXISTING MONITORING WELL
- 8 GROUNDWATER CONTOUR
- - - GROUNDWATER CONTOUR (INFERRED)
- (4.37) GROUNDWATER ELEVATION
- ← APPROXIMATE GROUNDWATER FLOW



**Hartford -
Brainard Airport
Phase II ESA**

BFJ Planning

Hartford,
Connecticut

MARK	DATE	DESCRIPTION
PROJECT NO:	C-5182-001	
DATE:	8/30/2023	
FILE:	C-5182-001-B-SP.dwg	
DRAWN BY:	IFA	
CHECKED BY:	JLL/MEP	
APPROVED BY:	JTO	

GROUNDWATER CONTOUR
MAP (JUNE 20, 2023)

SCALE: AS SHOWN

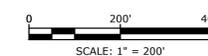


FIGURE 5

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LEGEND

- PROPERTY BOUNDARY
- EDGE OF ROAD
- ON-SITE PAVED SURFACE
- EDGE OF GRAVEL
- x-x- CHAIN LINK FENCE
- ▨ BUILDING
- EDGE OF RIVER
- 2 RUNWAY NUMBER
- ◆ HAND AUGER
- ◆ SOIL BORING
- ◆ MONITORING WELL
- PFAS > RSRs
- ETHP > RSRs
- VOCs > RSRs
- PAHs > RSRs
- LEAD > RSRs
- - - - - RELEASE AREA

NOTES

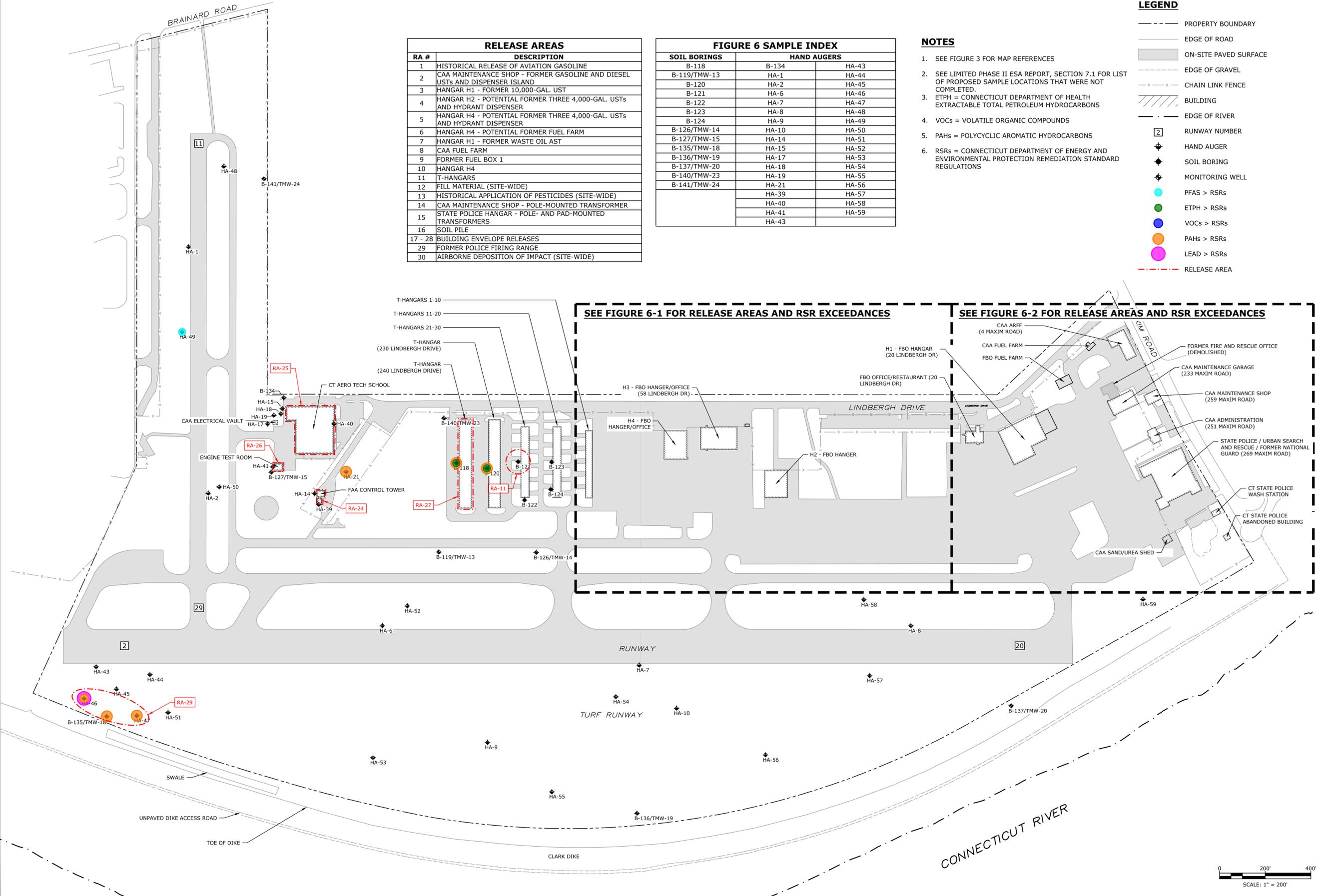
1. SEE FIGURE 3 FOR MAP REFERENCES
2. SEE LIMITED PHASE II ESA REPORT, SECTION 7.1 FOR LIST OF PROPOSED SAMPLE LOCATIONS THAT WERE NOT COMPLETED.
3. ETHP = CONNECTICUT DEPARTMENT OF HEALTH EXTRACTABLE TOTAL PETROLEUM HYDROCARBONS
4. VOCs = VOLATILE ORGANIC COMPOUNDS
5. PAHs = POLYCYCLIC AROMATIC HYDROCARBONS
6. RSRs = CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION REMEDIATION STANDARD REGULATIONS

RELEASE AREAS	
RA #	DESCRIPTION
1	HISTORICAL RELEASE OF AVIATION GASOLINE
2	CAA MAINTENANCE SHOP - FORMER GASOLINE AND DIESEL USTS AND DISPENSER ISLAND
3	HANGAR H1 - FORMER 10,000-GAL. UST
4	HANGAR H2 - POTENTIAL FORMER THREE 4,000-GAL. USTS AND HYDRANT DISPENSER
5	HANGAR H4 - POTENTIAL FORMER THREE 4,000-GAL. USTS AND HYDRANT DISPENSER
6	HANGAR H4 - POTENTIAL FORMER FUEL FARM
7	HANGAR H1 - FORMER WASTE OIL AST
8	CAA FUEL FARM
9	FORMER FUEL BOX 1
10	HANGAR H4
11	T-HANGARS
12	FILL MATERIAL (SITE-WIDE)
13	HISTORICAL APPLICATION OF PESTICIDES (SITE-WIDE)
14	CAA MAINTENANCE SHOP - POLE-MOUNTED TRANSFORMER
15	STATE POLICE HANGAR - POLE- AND PAD-MOUNTED TRANSFORMERS
16	SOIL PILE
17 - 28	BUILDING ENVELOPE RELEASES
29	FORMER POLICE FIRING RANGE
30	AIRBORNE DEPOSITION OF IMPACT (SITE-WIDE)

FIGURE 6 SAMPLE INDEX		
SOIL BORINGS	HAND AUGERS	
B-118	B-134	HA-43
B-119/TMW-13	HA-1	HA-44
B-120	HA-2	HA-45
B-121	HA-6	HA-46
B-122	HA-7	HA-47
B-123	HA-8	HA-48
B-124	HA-9	HA-49
B-126/TMW-14	HA-10	HA-50
B-127/TMW-15	HA-14	HA-51
B-135/TMW-18	HA-15	HA-52
B-136/TMW-19	HA-17	HA-53
B-137/TMW-20	HA-18	HA-54
B-140/TMW-23	HA-19	HA-55
B-141/TMW-24	HA-21	HA-56
	HA-39	HA-57
	HA-40	HA-58
	HA-41	HA-59
	HA-43	

SEE FIGURE 6-1 FOR RELEASE AREAS AND RSR EXCEEDANCES

SEE FIGURE 6-2 FOR RELEASE AREAS AND RSR EXCEEDANCES



Hartford - Brainard Airport Phase II ESA

BFJ Planning

Hartford, Connecticut

MARK	DATE	DESCRIPTION

PROJECT NO: C-5182-001
 DATE: 8/30/2023
 FILE: C-5182-001-B-SP.dwg
 DRAWN BY: IFA
 CHECKED BY: JLL/MEP
 APPROVED BY: JTO

RELEASE AREAS AND RSR EXCEEDANCES

SCALE: AS SHOWN

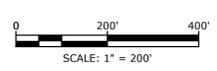


FIGURE 6

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RA #	DESCRIPTION
1	HISTORICAL RELEASE OF AVIATION GASOLINE
2	CAA MAINTENANCE SHOP - FORMER GASOLINE AND DIESEL USTs AND DISPENSER ISLAND
3	HANGAR H1 - FORMER 10,000-GAL. UST
4	HANGAR H2 - POTENTIAL FORMER THREE 4,000-GAL. USTs AND HYDRANT DISPENSER
5	HANGAR H4 - POTENTIAL FORMER THREE 4,000-GAL. USTs AND HYDRANT DISPENSER
6	HANGAR H4 - POTENTIAL FORMER FUEL FARM
7	HANGAR H1 - FORMER WASTE OIL AST
8	CAA FUEL FARM
9	FORMER FUEL BOX 1
10	HANGAR H4
11	T-HANGARS
12	FILL MATERIAL (SITE-WIDE)
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15	STATE POLICE HANGAR - POLE- AND PAD-MOUNTED TRANSFORMERS
16	SOIL PILE
17 - 28	BUILDING ENVELOPE RELEASES
29	FORMER POLICE FIRING RANGE
30	AIRBORNE DEPOSITION OF IMPACT (SITE-WIDE)

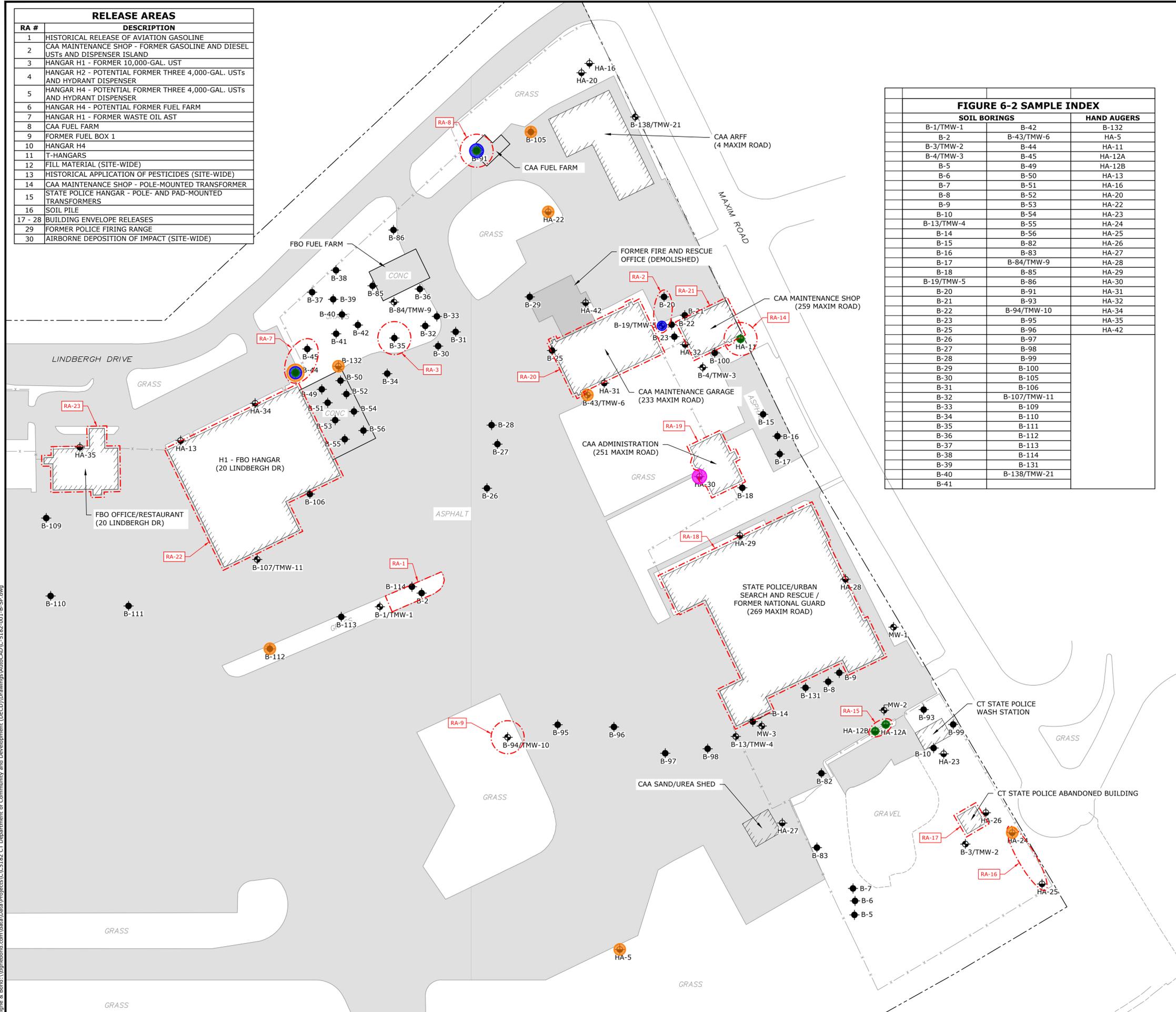
FIGURE 6-2 SAMPLE INDEX		
SOIL BORINGS		HAND AUGERS
B-1/TMW-1	B-42	B-132
B-2	B-43/TMW-6	HA-5
B-3/TMW-2	B-44	HA-11
B-4/TMW-3	B-45	HA-12A
B-5	B-49	HA-12B
B-6	B-50	HA-13
B-7	B-51	HA-16
B-8	B-52	HA-20
B-9	B-53	HA-22
B-10	B-54	HA-23
B-13/TMW-4	B-55	HA-24
B-14	B-56	HA-25
B-15	B-82	HA-26
B-16	B-83	HA-27
B-17	B-84/TMW-9	HA-28
B-18	B-85	HA-29
B-19/TMW-5	B-86	HA-30
B-20	B-91	HA-31
B-21	B-93	HA-32
B-22	B-94/TMW-10	HA-34
B-23	B-95	HA-35
B-25	B-96	HA-42
B-26	B-97	
B-27	B-98	
B-28	B-99	
B-29	B-100	
B-30	B-105	
B-31	B-106	
B-32	B-107/TMW-11	
B-33	B-109	
B-34	B-110	
B-35	B-111	
B-36	B-112	
B-37	B-113	
B-38	B-114	
B-39	B-114	
B-40	B-138/TMW-21	
B-41		

LEGEND

- PROPERTY BOUNDARY
- EDGE OF ROAD
- ON-SITE PAVED SURFACE
- EDGE OF GRAVEL
- x-x- CHAIN LINK FENCE
- ▨ BUILDING
- [2] RUNWAY NUMBER
- ◆ HAND AUGER
- ◆ SOIL BORING
- ◆ MONITORING WELL
- PFAS > RSRs
- ETPH > RSRs
- VOCs > RSRs
- PAHs > RSRs
- LEAD > RSRs
- - - - - RELEASE AREAS

NOTES

- ALL SAMPLE LOCATIONS ARE APPROXIMATE.
- SEE FIGURE 3 FOR MAP REFERENCES.
- SEE LIMITED PHASE II ESA REPORT, SECTION 7.1 FOR LIST OF PROPOSED SAMPLE LOCATIONS THAT WERE NOT COMPLETED.



Hartford - Brainard Airport Phase II ESA

BFJ Planning

Hartford, Connecticut

MARK	DATE	DESCRIPTION
PROJECT NO:	C-5182-001	
DATE:	8/30/2023	
FILE:	C-5182-001-B-SP.dwg	
DRAWN BY:	IFA	
CHECKED BY:	JLL/MEP	
APPROVED BY:	JTO	

RELEASE AREAS AND RSR EXCEEDANCES - DETAIL 2

SCALE: AS SHOWN



FIGURE 6-2

Tighe&Bond

APPENDIX B

TABLE 1

Monitoring Well Construction and Groundwater Elevation Summary
 Brainard Airport
 Hartford, Connecticut
 Last Updated: 6/26/2023 (IFA)

Well ID	Northing	Easting	Ground Elevation (ft)	Top of PVC Casing Elevation (ft)	Construction				June 20, 2023	
					Depth to Bottom (ftbTOC)	Screen Interval (ftbg)	Casing Material	Well Installation Date	Depth to Groundwater (ftbg)	Groundwater Elevation (ft)
TMW-1	831,751.73	1,027,289.47	16.37	16.25	14.54	5 - 15	1.5" PVC	4/27/23	7.78	8.59
TMW-2	832,402.85	1,027,701.40	18.68	18.39	12.49	3 - 13	1.5" PVC	4/28/23	9.68	9.00
TMW-3	832,190.43	1,027,074.20	18.22	17.77	14.63	5 - 15	1.5" PVC	5/1/23	9.14	9.08
TMW-4	832,160.12	1,027,516.11	17.56	17.18	13.39	5 - 15	1.5" PVC	4/27/23	8.73	8.83
TMW-5	832,147.50	1,026,989.16	19.81	19.46	14.75	5 - 15	1.5" PVC	5/1/23	11.03	8.78
TMW-6	832,055.03	1,027,064.25	17.66	17.42	14.61	5 - 15	1.5" PVC	5/1/23	8.91	8.75
TMW-7	830,472.73	1,027,199.22	16.46	16.25	14.48	5 - 15	1.5" PVC	5/17/23	9.37	7.09
TMW-8	830,289.54	1,026,958.56	15.20	14.87	14.34	5 - 15	1.5" PVC	5/18/23	8.54	6.66
TMW-9	831,821.51	1,026,919.38	17.10	16.76	14.52	5 - 15	1.5" PVC	5/4/23	8.65	8.45
TMW-10	831,887.62	1,027,479.54	16.71	16.55	11.75	2 - 12	1.5" PVC	4/27/23	8.03	8.68
TMW-11	831,599.97	1,027,201.29	17.16	16.97	14.61	5 - 15	1.5" PVC	5/4/23	8.57	8.59
TMW-12	830,099.87	1,026,963.55	15.19	14.81	14.46	5 - 15	1.5" PVC	5/18/23	8.59	6.60
TMW-13	829,026.81	1,027,197.75	13.48	13.22	14.46	5 - 15	1.5" PVC	5/19/23	8.57	4.91
TMW-14	829,440.09	1,027,260.73	14.39	14.09	14.51	5 - 15	1.5" PVC	5/19/23	8.76	5.63
TMW-15	828,351.50	1,026,741.19	11.47	11.06	14.48	5 - 15	1.5" PVC	5/19/23	8.90	2.57
TMW-16	830,909.29	1,027,147.97	15.80	15.49	14.61	5 - 15	1.5" PVC	5/17/23	8.31	7.49
TMW-17	830,912.82	1,027,657.94	16.18	15.83	14.49	5 - 15	1.5" PVC	5/22/23	8.31	7.87
TMW-18	827,468.01	1,027,671.90	11.43	11.05	14.33	5 - 15	1.5" PVC	5/22/23	7.06	4.37
TMW-19	829,702.65	1,028,465.13	12.68	12.42	14.50	5 - 15	1.5" PVC	5/22/23	6.09	6.59
TMW-20	831,387.90	1,028,241.57	16.34	16.00	14.50	5 - 15	1.5" PVC	5/22/23	8.02	8.32
TMW-21	832,156.09	1,026,740.32	18.54	18.22	14.56	5 - 15	1.5" PVC	5/1/23	9.86	8.68
TMW-23	829,128.75	1,026,622.11	13.60	13.20	14.46	5 - 15	1.5" PVC	5/19/23	8.47	5.13
TMW-24	828,512.49	1,025,466.00	12.24	11.91	14.37	5 - 15	1.5" PVC	5/19/23	10.83	1.41
TMW-25	830,125.01	1,026,777.65	13.85	13.57	14.48	5 - 15	1.5" PVC	5/17/23	7.39	6.46
MW-1	832,372.94	1,027,419.50	20.38	20.20	15.12	Unknown	2" PVC	Unknown	11.39	8.99
MW-2	832,343.45	1,027,512.89	18.53	18.29	13.02	Unknown	2" PVC	Unknown	9.55	8.98
MW-3	832,189.72	1,027,507.95	17.55	17.28	12.27	Unknown	2" PVC	Unknown	8.65	8.90
OW-1	830,427.31	1,026,853.98	15.05	14.90	10.61	Unknown	4" PVC	Unknown	7.62	7.43
OW-2	830,441.82	1,026,848.91	15.12	14.97	10.09	Unknown	4" PVC	Unknown	7.66	7.46

ftbg = Feet below grade

ftbTOC = Feet below top of PVC Casing

Vertical Datum = NAVD88

Horizontal Datum = NAD83

Depth to bottom measured from top of PVC casing

Monitoring well locations were surveyed by Pereira Engineering on June 20, 2023

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	DUP-1	B-13	B-14	B-15	B-16	B-17	B-18	B-19	B-20	DUP-2	B-21
	RES	I/C	GB	GWPC	4 - 5 ft	4 - 5 ft	0 - 2 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	6 - 8 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	7 - 9 ft	8 - 10 ft	13 - 15 ft	6 - 8 ft	6 - 8 ft	8 - 10 ft
Sample Depth					4/27/2023	4/27/2023	4/28/2023	5/1/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/27/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023
Lab Sample ID					CN92786	CN92787	CN93805	CN94953	CN93806	CN93807	CN93808	CN93809	CN93810	CN93811	CN93812	CN92796	CN93813	CN93814	CN93815	CN93816	CN93817	CN94954	CN94955	CN94956	CN94957
Lab Report ID	DEC	DEC	PMC	x10	GCN92786	GCN92786	GCN93805	GCN94953	GCN93805	GCN92786	GCN93805	GCN93805	GCN93805	GCN93805	GCN93805	GCN94953	GCN94953	GCN94953	GCN94953						
Parent Sample ID															CN93811								CN94955		
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	<65	250	<53	<60	<66	<55	<64	<68	<52	<67	<69	<65	<61	<55	<61	<60	<63	<63	<52	<51	<54
PFAS CT DEEP (mg/Kg)																									
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (ng/L)																									
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010D (mg/Kg)																									
Antimony	27	8,200	NA	NA	-	-	<3.5	<3.8	-	-	-	-	-	<4.5	<4.8	-	-	-	-	-	-	-	-	-	-
Arsenic	10	10	NA	NA	-	-	2.27	1.51	-	-	-	-	-	2.26	2.04	-	-	-	-	-	-	-	-	-	-
Barium	4,700	140,000	NA	NA	-	-	32.2	22.2	-	-	-	-	-	51.7	52.9	-	-	-	-	-	-	-	-	-	-
Beryllium	2	2	NA	NA	-	-	<0.28	<0.30	-	-	-	-	-	<0.36	<0.39	-	-	-	-	-	-	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	1.71	0.4	-	-	-	-	-	<0.45	<0.48	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	-	-	13.2	10.2	-	-	-	-	-	19.1	18.6	-	-	-	-	-	-	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	13.1	10.2	-	-	-	-	-	15.1	15	-	-	-	-	-	-	-	-	-	-
Lead	400	1,000	NA	NA	-	7.68	19.4	7.34	6.29	9.84	-	-	-	4.15	4	5.1	-	8.38	19.3	-	-	-	7.02	12.7	13
Mercury (7471B)	20	610	NA	NA	-	-	0.05	0.12	-	-	-	-	-	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	12.4	11.5	-	-	-	-	-	17.5	17.3	-	-	-	-	-	-	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	<1.4	<1.5	-	-	-	-	-	<1.8	<1.9	-	-	-	-	-	-	-	-	-	-
Silver	340	10,000	NA	NA	-	-	<0.35	<0.38	-	-	-	-	-	<0.45	<0.48	-	-	-	-	-	-	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	<3.2	<3.4	-	-	-	-	-	<4.1	<4.3	-	-	-	-	-	-	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	16	11.6	-	-	-	-	-	22.4	21.8	-	-	-	-	-	-	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	126	35.2	-	-	-	-	-	42.5	41.2	-	-	-	-	-	-	-	-	-	-
SPLP Metals 6010D (mg/L)																									
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																									
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Pesticides 8081B (ug/L)																									
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																									
Aroclor-1260	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	<0.44	<0.47	-	-	-	-	-	-	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	-	-	-	-	-	-	ND	ND	-	-	-	-	-	-	-	-	-	-
Herbicides 8151A (mg/Kg)																									
Varies	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CTDEEP RSRs - Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)
 CT ETPH - Connecticut Department of Public Health
 Extractable Total Petroleum Hydrocarbons
 NE - Not established; NA - Not Applicable
 <xx indicates compound was not reported above laboratory limits.
 "-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above
 Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	DUP-1	B-13	B-14	B-15	B-16	B-17	B-18	B-19	B-20	DUP-2	B-21
	RES	I/C	GB	GWPC	4 - 5 ft	4 - 5 ft	0 - 2 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	6 - 8 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	7 - 9 ft	8 - 10 ft	13 - 15 ft	6 - 8 ft	6 - 8 ft	8 - 10 ft
Sample Depth					4/27/2023	4/27/2023	4/28/2023	5/1/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/27/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	4/28/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023
Lab Sample ID					CN92786	CN92787	CN93805	CN94953	CN93806	CN93807	CN93808	CN93809	CN93810	CN93811	CN93812	CN92796	CN93813	CN93814	CN93815	CN93816	CN93817	CN94954	CN94955	CN94956	CN94957
Lab Report ID	DEC	DEC	PMC	x10	GCN92786	GCN92786	GCN93805	GCN94953	GCN93805	GCN92786	GCN93805	GCN93805	GCN93805	GCN93805	GCN93805	GCN94953	GCN94953	GCN94953	GCN94953						
Parent Sample ID															CN93811									CN94955	
Dioxane 8270D (mg/Kg)																									
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycol 8015D (mg/Kg)																									
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs 8260C (mg/Kg)																									
Benzene	21	200	0.2	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	<0.34	<0.0052	<0.0056	<0.0046
Butylbenzene, n-	500	1,000	70	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	3.5	<0.0052	<0.0056	<0.0046
Butylbenzene, sec-	500	1,000	70	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	1.5	<0.0052	<0.0056	<0.0046
Carbon disulfide	500	1,000	8	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	<3.4	0.0066	<0.0056	<0.0046
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	500	1,000	10.1	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	45	<0.0052	<0.0056	<0.0046
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	4.4	<0.0052	<0.0056	<0.0046
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	<3.4	<0.0052	<0.0056	<0.0046
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	<3.4	<0.0052	<0.0056	<0.0046
Naphthalene	1,000	2,500	56	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	23	<0.0052	<0.0056	<0.0046
Propylbenzene, n-	500	1,000	10	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	20	<0.0052	<0.0056	<0.0046
Tetrahydrofuran	61	570	0.8	NA	<0.011	<0.011	<0.011	<0.012	<0.022	<0.0089	<0.014	-	-	<0.014	<0.058	<0.012	<0.011	<0.011	<0.01	<0.011	-	<1.7	<0.01	<0.011	<0.0092
Toluene	500	1,000	67	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	1.5	<0.0052	<0.0056	<0.0046
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	130	<0.0052	<0.0056	<0.0046
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	37	<0.0052	<0.0056	<0.0046
Xylene (Total)	500	1,000	19.5	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	170	<0.0052	<0.0056	<0.0046
Xylene, m,p-	NE	NE	NE	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	140	<0.0052	<0.0056	<0.0046
Xylene, o-	NE	NE	NE	NA	<0.0054	<0.0056	<0.0053	<0.0058	<0.011	<0.0045	<0.0071	-	-	<0.0072	<0.029	<0.006	<0.0054	<0.0055	<0.0052	<0.0053	-	30	<0.0052	<0.0056	<0.0046
SVOCs 8270D (mg/Kg)																									
Acenaphthene	1,000	2,500	84	NA	-	<0.31	<0.25	<0.27	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
Acenaphthylene	1,000	2,500	84	NA	-	<0.31	<0.25	<0.27	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
Anthracene	1,000	2,500	400	NA	-	<0.31	<0.25	<0.27	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
Benzo(a)anthracene	1	7.8	1	NA	-	<0.31	<0.25	0.47	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	0.33	<0.24	<0.25
Benzo(a)pyrene	1	1	1	NA	-	<0.31	<0.25	0.51	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	0.35	-	<0.29	<0.29	0.43	0.31	<0.25
Benzo(b)fluoranthene	1	7.8	1	NA	-	<0.31	<0.25	0.52	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	0.38	-	<0.29	<0.29	0.55	0.38	0.26
Benzo(g,h,i)perylene	8.4	78	1	NA	-	<0.31	<0.25	0.3	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	0.29	<0.24	<0.25
Benzo(k)fluoranthene	8.4	78	1	NA	-	<0.31	<0.25	<0.27	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	<0.36	<0.39	-	-	-	-	-	<0.45	<0.45	-	-	-	-	-	-	-	-	-	-
Carbazole	31	290	1	NA	-	-	<0.36	<0.39	-	-	-	-	-	<0.45	<0.45	-	-	-	-	-	-	-	-	-	-
Chrysene	84	780	1	NA	-	<0.31	<0.25	0.45	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	0.37	0.27	<0.25
Dibenz(a,h)anthracene	1	1	1	NA	-	<0.31	<0.25	<0.27	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
Fluoranthene	1,000	2,500	56	NA	-	<0.31	<0.25	0.95	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	0.34	-	<0.29	<0.29	0.55	0.4	0.33
Fluorene	1,000	2,500	56	NA	-	<0.31	<0.25	<0.27	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	-	<0.31	<0.25	0.3	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	0.29	<0.24	<0.25
Methylnaphthalene, 2-	270	1,000	5.6	NA	-	<0.31	<0.25	<0.27	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
Naphthalene	1,000	2,500	56	NA	-	<0.31	<0.25	<0.27	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
Phenanthrene	1,000	2,500	40	NA	-	<0.31	<0.25	0.76	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26	<0.28	-	<0.29	<0.29	<0.24	<0.24	<0.25
Pyrene	1,000	2,500	40	NA	-	<0.31	<0.25	0.83	<0.31	<0.25	-	<0.32	<0.24	<0.31	<0.32	<0.3	-	<0.26							

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-22	B-23	B-25	B-26	B-27	B-28	B-29	B-30	DUP-4	B-31	B-32	B-33	B-34	B-35	DUP-6	B-36	B-37	B-38	B-39	B-40	B-40
	RES	I/C	GB	GWPC	8 - 10 ft	8 - 10 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	10 - 12 ft	8 - 10 ft	13 - 15 ft	13 - 15 ft	12 - 14 ft	10 - 12 ft	10 - 12 ft	10 - 12 ft	11 - 13 ft	11 - 13 ft	10 - 12 ft	5 - 7 ft	10 - 12 ft			
Sample Depth					5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/4/2023	5/4/2023	5/4/2023	5/5/2023	5/5/2023	5/4/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023
Lab Sample ID					CN94958	CN94959	CN94960	CN94961	CN94962	CN94963	CN94964	CN97920	CN97921	CN97922	CN98857	CN98858	CN97923	CN98846	CN98847	CN98848	CN98849	CN98850	CN98851	CN98852	CN98853
Lab Report ID	DEC	DEC	PMC	x10	GCN94953	GCN94953	GCN94953	GCN94953	GCN94953	GCN94953	GCN94953	GCN97920	GCN97920	GCN97920	GCN98846	GCN98846	GCN97920	GCN98846	GCN98846	GCN98846	GCN98846	GCN98846	GCN98846	GCN98846	GCN98846
Parent Sample ID													CN97920						CN98846						
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	<75	<68	<56	<56	<63	<72	<74	<62	<62	<69	<70	<71	<64	<56	<61	<86	<83	<69	<88	-	<66
PFAS CT DEEP (mg/Kg)																									
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (ng/L)																									
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010D (mg/Kg)																									
Antimony	27	8,200	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	10	10	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	4,700	140,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	2	2	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	1,000	NA	NA	6.72	-	-	8.2	2.87	-	-	2.55	3.13	-	6.13	-	3.6	-	-	5.3	5.27	3.36	3.55	-	4.74
Mercury (7471B)	20	610	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Metals 6010D (mg/L)																									
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																									
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Pesticides 8081B (ug/L)																									
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																									
Aroclor-1260	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Herbicides 8151A (mg/Kg)																									
Varies	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Extractable Total Petroleum Hydrocarbons
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 <xx indicates compound was not reported above laboratory limits.
 "-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above
 Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria
 GB PMC- Pollutant Mobility Criteria in a GB groundwater area
 Boxed values indicate exceedances of RES DEC
 Bold values indicate exceedances of I/C DEC
 Gray shaded values indicate exceedance of GB PMC

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-22	B-23	B-25	B-26	B-27	B-28	B-29	B-30	DUP-4	B-31	B-32	B-33	B-34	B-35	DUP-6	B-36	B-37	B-38	B-39	B-40	B-40
	RES	I/C	GB	GWPC	8 - 10 ft	8 - 10 ft	6 - 8 ft	8 - 10 ft	10 - 12 ft	10 - 12 ft	8 - 10 ft	13 - 15 ft	13 - 15 ft	12 - 14 ft	10 - 12 ft	10 - 12 ft	10 - 12 ft	11 - 13 ft	11 - 13 ft	10 - 12 ft	10 - 12 ft	10 - 12 ft	10 - 12 ft	5 - 7 ft	10 - 12 ft
Sample Depth					5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/1/2023	5/4/2023	5/4/2023	5/4/2023	5/5/2023	5/5/2023	5/4/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023	5/5/2023
Lab Sample ID					CN94958	CN94959	CN94960	CN94961	CN94962	CN94963	CN94964	CN97920	CN97921	CN97922	CN98857	CN98858	CN97923	CN98846	CN98847	CN98848	CN98849	CN98850	CN98851	CN98852	CN98853
Lab Report ID	DEC	DEC	PMC	x10	GCN94953	GCN94953	GCN94953	GCN94953	GCN94953	GCN94953	GCN94953	GCN97920	GCN97920	GCN97920	GCN98846	GCN98846	GCN97920	GCN98846	GCN98846	GCN98846	GCN98846	GCN98846	GCN98846	GCN98846	
Parent Sample ID													CN97920						CN98846						
Dioxane 8270D (mg/Kg)																									
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glycol 8015D (mg/Kg)																									
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOCs 8260C (mg/Kg)																									
Benzene	21	200	0.2	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.2	<0.2	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Butylbenzene, n-	500	1,000	70	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Butylbenzene, sec-	500	1,000	70	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Carbon disulfide	500	1,000	8	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	500	1,000	10.1	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Naphthalene	1,000	2,500	56	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Propylbenzene, n-	500	1,000	10	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	0.2	0.17	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Tetrahydrofuran	61	570	0.8	NA	<0.013	-	-	<0.0098	<0.011	<0.013	-	<0.01	<0.011	<0.012	<0.013	<0.013	<0.016	<0.48	<0.61	<0.012	<0.012	<0.012	<0.02	0.012	
Toluene	500	1,000	67	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Xylene (Total)	500	1,000	19.5	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Xylene, m,p-	NE	NE	NE	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
Xylene, o-	NE	NE	NE	NA	<0.0066	-	-	<0.0049	<0.0056	<0.0066	-	<0.0052	<0.0056	<0.0061	<0.0066	<0.0064	<0.008	<0.24	<0.31	<0.0061	<0.0061	<0.006	<0.0098	<0.0059	
SVOCs 8270D (mg/Kg)																									
Acenaphthene	1,000	2,500	84	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Acenaphthylene	1,000	2,500	84	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Anthracene	1,000	2,500	400	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Benzo(a)anthracene	1	7.8	1	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Benzo(a)pyrene	1	1	1	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Benzo(b)fluoranthene	1	7.8	1	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Benzo(g,h,i)perylene	8.4	78	1	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Benzo(k)fluoranthene	8.4	78	1	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbazole	31	290	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	84	780	1	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Dibenz(a,h)anthracene	1	1	1	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Fluoranthene	1,000	2,500	56	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Fluorene	1,000	2,500	56	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Methylnaphthalene, 2-	270	1,000	5.6	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Naphthalene	1,000	2,500	56	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Phenanthrene	1,000	2,500	40	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	
Pyrene	1,000	2,500	40	NA	<0.34	-	<0.26	<0.26	<0.29	-	<0.35	<0.29	<0.29	-	<0.32	-	<0.3	-	-	<0.33	<0.31	<0.32	<0.33	<0.31	

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 Boxed values indicate exceedances of RES DEC
 Bold values indicate exceedances of I/C DEC
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NE - Not established; NA - Not Applicable
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TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-41	B-41	B-42	B-43	B-43	B-44	DUP-5	B-44	B-45	B-49	B-50	B-51	B-52	B-53	B-54	B-55	B-56	B-57	B-58	B-59	DUP-7	
	RES	I/C	GB	GWPC	5 - 7 ft	10 - 12 ft	8 - 10 ft	6 - 8 ft	13 - 15 ft	3 - 5 ft	3 - 5 ft	10 - 12 ft	6 - 8 ft	10 - 12 ft	10 - 12 ft	8 - 10 ft	10 - 12 ft	8 - 10 ft	10 - 12 ft	10 - 12 ft						
Sample Depth					5/5/2023	5/5/2023	5/4/2023	5/1/2023	5/1/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	
Lab Sample ID					CN98854	CN98855	CN97924	CN94965	CN94966	CN97925	CN97926	CN97927	CN97928	CN97931	CN97932	CN97933	CN97934	CN97935	CN97936	CN97937	CN97938	CO08002	CO08003	CO08004	CO08005	
Lab Report ID					DEC	DEC	PMC	x10	GCN98846	GCN98846	GCN97920	GCN94953	GCN94953	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCO08002	GCO08002	GCO08002	GCO08002
Parent Sample ID																									CO08004	
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	-	<66	<64	-	<290	7,500	8,400	<64	78	<67	<71	<70	<68	<68	<69	<71	<68	<69	<63	<67	<65	
PFAS CT DEEP (mg/Kg)																										
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PFAS CT DEEP (ng/L)																										
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals 6010D (mg/Kg)																										
Antimony	27	8,200	NA	NA	-	-	-	-	<4.0	<4.3	<4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	10	10	NA	NA	-	-	-	-	3.53	2.65	2.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	4,700	140,000	NA	NA	-	-	-	-	53.5	53.1	54.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	2	2	NA	NA	-	-	-	-	<0.32	<0.34	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	34	1,000	NA	NA	-	-	-	-	0.43	<0.43	0.43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium (Total)	NE	NE	NA	NA	-	-	-	-	32.1	21.3	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	2,500	76,000	NA	NA	-	-	-	-	23.9	16.4	16.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	400	1,000	NA	NA	-	6.5	3.27	-	47	8.52	8.51	3.43	-	3.04	-	3.41	-	3	-	2.81	-	6.38	6.52	6.11	5.43	
Mercury (7471B)	20	610	NA	NA	-	-	-	-	0.57	<0.03	<0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	1,400	7,500	NA	NA	-	-	-	-	12	20.9	21.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	340	10,000	NA	NA	-	-	-	-	<1.6	<1.7	<1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	340	10,000	NA	NA	-	-	-	-	<0.40	<0.43	<0.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	5.4	160	NA	NA	-	-	-	-	<3.6	<3.9	<3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	470	14,000	NA	NA	-	-	-	-	15.4	25.8	26.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	20,000	610,000	NA	NA	-	-	-	-	35.9	50.1	51.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SPLP Metals 6010D (mg/L)																										
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	<0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	NA	NA	13	NA	-	-	-	-	<0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	NA	NA	0.15	NA	-	-	-	-	<0.0005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides 8081B (mg/Kg)																										
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SPLP Pesticides 8081B (ug/L)																										
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs 8082A (mg/Kg)																										
Aroclor-1260	NE	NE	NA	NA	-	-	-	-	<0.38	<0.4	<0.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PCBs (Total)	1	10	NA	NA	-	-	-	-	ND	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Herbicides 8151A (mg/Kg)																										
Varies	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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 Extractable Total Petroleum Hydrocarbons
 NE - Not established; NA - Not Applicable
 <xx indicates compound was not reported above laboratory limits.
 "-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above
 Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria

GB PMC- Pollutant Mobility Criteria in a GB groundwater area
 Boxed values indicate exceedances of RES DEC
 Bold values indicate exceedances of I/C DEC
 Gray shaded values indicate exceedance of GB PMC

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-41	B-41	B-42	B-43	B-43	B-44	DUP-5	B-44	B-45	B-49	B-50	B-51	B-52	B-53	B-54	B-55	B-56	B-57	B-58	B-59	DUP-7
	RES	I/C	GB	GWPC	5 - 7 ft	10 - 12 ft	8 - 10 ft	6 - 8 ft	13 - 15 ft	3 - 5 ft	3 - 5 ft	10 - 12 ft	6 - 8 ft	10 - 12 ft	10 - 12 ft	8 - 10 ft	10 - 12 ft	8 - 10 ft	10 - 12 ft	10 - 12 ft					
Sample Depth					5/5/2023	5/5/2023	5/4/2023	5/1/2023	5/1/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/4/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023
Lab Sample ID					CN98854	CN98855	CN97924	CN94965	CN94966	CN97925	CN97926	CN97927	CN97928	CN97931	CN97932	CN97933	CN97934	CN97935	CN97936	CN97937	CN97938	CO08002	CO08002	CO08004	CO08005
Lab Report ID	DEC	DEC	PMC	x10	GCN98846	GCN98846	GCN97920	GCN94953	GCN94953	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCN97920	GCO08002	GCO08002	GCO08002	GCO08002
Parent Sample ID																									CO08004
Dioxane 8270D (mg/Kg)																									
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycol 8015D (mg/Kg)																									
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs 8260C (mg/Kg)																									
Benzene	21	200	0.2	NA	<0.2	-	<0.0061	<0.0055	-	<0.71	<0.7	<0.0053	<0.2	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Butylbenzene, n-	500	1,000	70	NA	<0.35	-	<0.0061	<0.0055	-	14	12	0.024	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Butylbenzene, sec-	500	1,000	70	NA	<0.35	-	<0.0061	<0.0055	-	11	10	0.019	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Carbon disulfide	500	1,000	8	NA	<0.35	-	<0.0061	<0.0055	-	<7.1	<7	<0.0053	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	500	1,000	10.1	NA	<0.35	-	<0.0061	<0.0055	-	5.9	5.3	<0.0053	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.35	-	<0.0061	<0.0055	-	4.4	4.2	0.012	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.35	-	<0.0061	<0.0055	-	<7.1	<7	0.0046	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.35	-	<0.0061	<0.0055	-	8.3	7.4	0.0063	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Naphthalene	1,000	2,500	56	NA	<0.35	-	<0.0061	<0.0055	-	42	38	0.088	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Propylbenzene, n-	500	1,000	10	NA	<0.35	-	<0.0061	<0.0055	-	11	9.6	0.026	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Tetrahydrofuran	61	570	0.8	NA	<0.71	-	<0.012	<0.011	-	<3.6	<3.5	<0.011	<0.59	<0.011	<0.016	<0.012	<0.011	<0.013	<0.011	<0.011	<0.012	<0.019	<0.013	<0.015	<0.016
Toluene	500	1,000	67	NA	<0.35	-	<0.0061	<0.0055	-	<7.1	<7	<0.0053	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.35	-	<0.0061	<0.0055	-	62	56	0.16	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.35	-	<0.0061	<0.0055	-	23	21	0.015	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Xylene (Total)	500	1,000	19.5	NA	<0.35	-	<0.0061	<0.0055	-	14	12	0.0046	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Xylene, m,p-	NE	NE	NE	NA	<0.35	-	<0.0061	<0.0055	-	14	12	0.0046	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
Xylene, o-	NE	NE	NE	NA	<0.35	-	<0.0061	<0.0055	-	<7.1	<7	<0.0053	<0.29	<0.0057	<0.0078	<0.0058	<0.0055	<0.0063	<0.0057	<0.0056	<0.0059	<0.0095	<0.0066	<0.0075	<0.0078
SVOCs 8270D (mg/Kg)																									
Acenaphthene	1,000	2,500	84	NA	-	<0.31	<0.3	-	0.45	<1.4	<1.4	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Acenaphthylene	1,000	2,500	84	NA	-	<0.31	<0.3	-	1.1	<1.4	<1.4	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Anthracene	1,000	2,500	400	NA	-	<0.31	<0.3	-	1.8	<1.4	<1.4	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Benzo(a)anthracene	1	7.8	1	NA	-	<0.31	<0.3	-	3	<1	<1	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Benzo(a)pyrene	1	1	1	NA	-	<0.31	<0.3	-	2.1	<1	<1	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Benzo(b)fluoranthene	1	7.8	1	NA	-	<0.31	<0.3	-	2.7	<1	<1	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Benzo(g,h,i)perylene	8.4	78	1	NA	-	<0.31	<0.3	-	0.97	<1	<1	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Benzo(k)fluoranthene	8.4	78	1	NA	-	<0.31	<0.3	-	1.1	<1	<1	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	-	<0.39	<2	<2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	31	290	1	NA	-	-	-	-	<0.39	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	84	780	1	NA	-	<0.31	<0.3	-	3	<1	<1	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Dibenz(a,h)anthracene	1	1	1	NA	-	<0.31	<0.3	-	0.34	<1	<1	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Fluoranthene	1,000	2,500	56	NA	-	<0.31	<0.3	-	6.5	<1.4	<1.4	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Fluorene	1,000	2,500	56	NA	-	<0.31	<0.3	-	1.9	<1.4	<1.4	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	-	<0.31	<0.3	-	1.1	<1	<1	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Methylnaphthalene, 2-	270	1,000	5.6	NA	-	<0.31	<0.3	-	0.34	44	45	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Naphthalene	1,000	2,500	56	NA	-	<0.31	<0.3	-	0.67	17	18	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Phenanthrene	1,000	2,500	40	NA	-	<0.31	<0.3	-	1.1	<1.4	<1.4	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3
Pyrene	1,000	2,500	40	NA	-	<0.31	<0.3	-	6.6	<1.4	<1.4	<0.29	-	<0.31	-	<0.33	-	<0.32	-	<0.32	-	<0.33	<0.29	<0.31	<0.3

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TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-60	B-61	B-62	B-63	B-64	B-65	B-66	B-67	DUP-10	B-68	B-69	B-70	B-71	B-72	B-73	B-74	B-75	DUP-11	B-76	B-77	B-78
	RES	I/C	GB	GWPC	10 - 12 ft	10 - 12 ft	10 - 11 ft	10 - 12 ft	10 - 12 ft	10 - 12 ft	9 - 10 ft	7 - 9 ft	7 - 9 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	5 - 7 ft	5 - 7 ft	8 - 10 ft	10 - 12 ft	9 - 10 ft
Sample Depth					CO08007	CO09163	CO09164	CO08006	CO08008	CO08009	CO09165	CO09166	CO09182	CO09167	CO09168	CO09169	CO09170	CO09171	CO09172	CO09173	CO09174	CO09183	CO09175	CO09176	CO09177
Sample Date					5/17/2023	5/18/2023	5/18/2023	5/17/2023	5/17/2023	5/17/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023
Lab Sample ID					GCO08002	GCO09163	GCO09163	GCO08002	GCO08002	GCO08002	GCO09163	GCO09163													
Lab Report ID																									
Parent Sample ID													CO09166									CO09174			
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	<320	<62	<62	<60	<76	<65	<54	<63	<64	<66	<65	<65	<65	<65	<65	<65	<66	<66	<66	<63	<69
PFAS CT DEEP (mg/Kg)																									
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (ng/L)																									
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010D (mg/Kg)																									
Antimony	27	8,200	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	10	10	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	4,700	140,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	2	2	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	1,000	NA	NA	-	5.28	-	2.98	-	3.89	5.08	-	-	12.4	7.16	7.32	7.09	-	6.15	7.53	11.3	11.9	-	6.52	
Mercury (7471B)	20	610	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Metals 6010D (mg/L)																									
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																									
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Pesticides 8081B (ug/L)																									
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																									
Aroclor-1260	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Herbicides 8151A (mg/Kg)																									
Varies	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CTDEEP RSRs - Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)

GB PMC- Pollutant Mobility Criteria in a GB groundwater area
 Boxed values indicate exceedances of RES DEC
 Bold values indicate exceedances of I/C DEC
 Gray shaded values indicate exceedance of GB PMC

CT ETPH - Connecticut Department of Public Health

Extractable Total Petroleum Hydrocarbons
 NE - Not established; NA - Not Applicable
 <xx indicates compound was not reported above laboratory limits.

"-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above

Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-60	B-61	B-62	B-63	B-64	B-65	B-66	B-67	DUP-10	B-68	B-69	B-70	B-71	B-72	B-73	B-74	B-75	DUP-11	B-76	B-77	B-78
	RES	I/C	GB	GWPC	10 - 12 ft	10 - 12 ft	10 - 11 ft	10 - 12 ft	10 - 12 ft	10 - 12 ft	9 - 10 ft	7 - 9 ft	7 - 9 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	5 - 7 ft	5 - 7 ft	8 - 10 ft	10 - 12 ft	9 - 10 ft
Sample Depth					5/17/2023	5/18/2023	5/18/2023	5/17/2023	5/17/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023	5/18/2023
Lab Sample ID					CO08007	CO09163	CO09164	CO08006	CO08008	CO08009	CO09165	CO09166	CO09182	CO09167	CO09168	CO09169	CO09170	CO09171	CO09172	CO09173	CO09174	CO09183	CO09175	CO09176	CO09177
Lab Report ID	DEC	DEC	PMC	x10	GCO08002	GCO09163	GCO09163	GCO08002	GCO08002	GCO08002	GCO09163	GCO09163													
Parent Sample ID													CO09166									CO09174			
Dioxane 8270D (mg/Kg)																									
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycol 8015D (mg/Kg)																									
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs 8260C (mg/Kg)																									
Benzene	21	200	0.2	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.2	<0.2	<0.2	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.2	<0.2	<0.0058	<0.0055	<0.2
Butylbenzene, n-	500	1,000	70	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
Butylbenzene, sec-	500	1,000	70	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
Carbon disulfide	500	1,000	8	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	500	1,000	10.1	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	0.31	<0.0058	<0.0055	<0.44
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
Naphthalene	1,000	2,500	56	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
Propylbenzene, n-	500	1,000	10	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	0.78	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	0.26	0.61	<0.0058	<0.0055	<0.44
Tetrahydrofuran	61	570	0.8	NA	<0.012	<0.012	<0.012	<0.01	<0.013	<0.015	<0.011	<0.8	<0.8	<0.77	<0.011	<0.011	<0.012	<0.012	<0.021	<0.011	<0.8	<0.8	<0.012	<0.011	<0.8
Toluene	500	1,000	67	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	2.2	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	0.45
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	0.81	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	0.19
Xylene (Total)	500	1,000	19.5	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	5.7	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	0.62
Xylene, m,p-	NE	NE	NE	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	5.7	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	0.62
Xylene, o-	NE	NE	NE	NA	<0.006	<0.0058	<0.0059	<0.0052	<0.0064	<0.0074	<0.0056	<0.42	<0.47	<0.38	<0.0055	<0.0053	<0.0061	<0.0058	<0.011	<0.0057	<0.41	<0.46	<0.0058	<0.0055	<0.44
SVOCs 8270D (mg/Kg)																									
Acenaphthene	1,000	2,500	84	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Acenaphthylene	1,000	2,500	84	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Anthracene	1,000	2,500	400	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Benzo(a)anthracene	1	7.8	1	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Benzo(a)pyrene	1	1	1	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Benzo(b)fluoranthene	1	7.8	1	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Benzo(g,h,i)perylene	8.4	78	1	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Benzo(k)fluoranthene	8.4	78	1	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	31	290	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	84	780	1	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Dibenz(a,h)anthracene	1	1	1	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Fluoranthene	1,000	2,500	56	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Fluorene	1,000	2,500	56	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Methylnaphthalene, 2-	270	1,000	5.6	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Naphthalene	1,000	2,500	56	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Phenanthrene	1,000	2,500	40	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-
Pyrene	1,000	2,500	40	NA	-	<0.3	-	<0.28	-	<0.3	<0.25	-	-	<0.31	<0.3	<0.3	<0.3	-	<0.3	<0.3	<0.31	<0.3	-	<0.29	-

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 Gray shaded values indicate exceedance of GB PMC

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-79	B-80	B-81	B-82	B-83	B-84	B-85	B-86	B-88	DUP-8	B-89	B-89	B-90	B-91	B-92	B-92	B-93	B-94	B-95	B-96	B-97
	RES	I/C	GB	GWPC	11 - 12 ft	10 - 11 ft	10 - 11 ft	1 - 3 ft	0.5 - 2.5 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	1 - 3 ft	1 - 3 ft	3 - 5 ft	8 - 10 ft	0.5 - 2.5 ft	3 - 5 ft	2 - 4 ft	8 - 10 ft	1 - 2.5 ft	3 - 5 ft	3 - 5 ft	3 - 5 ft	3 - 5 ft
Sample Depth					5/18/2023	5/18/2023	5/18/2023	4/28/2023	4/28/2023	5/4/2023	5/5/2023	5/5/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	4/28/2023	4/27/2023	4/27/2023	4/27/2023	4/27/2023
Lab Sample ID					CO09178	CO09179	CO09180	CN93818	CN93819	CN97939	CN98859	CN98856	CO08010	CO08011	CO08013	CO08014	CO08015	CN94967	CO08016	CO08017	CN93820	CN92788	CN92789	CN92790	CN92791
Lab Report ID	DEC	DEC	PMC	x10	GCO09163	GCO09163	GCO09163	GCN93805	GCN93805	GCN97920	GCN98846	GCN98846	GCO08002	GCO08002	GCO08002	GCO08002	GCO08002	GCN94953	GCO08002	GCO08002	GCN93805	GCN92786	GCN92786	GCN92786	GCN92786
Parent Sample ID													CO08010												
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	<69	<68	<64	<56	<56	<58	<65	<61	<66	<64	<65	<71	<60	5,100	<66	<66	<59	<65	<62	<59	<55
PFAS CT DEEP (mg/Kg)																									
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (ng/L)																									
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010D (mg/Kg)																									
Antimony	27	8,200	NA	NA	-	-	-	<3.9	<4.1	-	-	<4.2	<4.5	<4.0	<4.4	<5.1	<3.7	-	<4.1	-	<4.1	-	-	-	-
Arsenic	10	10	NA	NA	-	-	-	2.65	2.26	-	-	3.62	4.27	4.3	3.26	2.6	3.93	-	4	-	3.37	-	-	-	-
Barium	4,700	140,000	NA	NA	-	-	-	51.7	58.6	-	-	67.4	83.3	83	60.9	62.9	93.4	-	89.1	-	57	-	-	-	-
Beryllium	2	2	NA	NA	-	-	-	0.33	<0.33	-	-	0.45	0.55	0.55	0.44	<0.41	0.51	-	0.56	-	0.35	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	-	<0.39	<0.41	-	-	1.42	0.68	0.67	0.45	<0.51	0.56	-	0.64	-	<0.41	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	-	-	-	19.8	18.4	-	-	26.9	30.6	30.9	24.7	22.9	23.3	-	32	-	20.3	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	-	18.1	17.5	-	-	24.1	23.6	24.2	19.1	16.4	22.4	-	25.1	-	30.7	-	-	-	-
Lead	400	1,000	NA	NA	8.18	7.32	-	9.81	6.68	13.1	5.84	12.3	8.24	8.78	5.44	5.09	15.9	-	8.16	6.12	39.1	4.79	4.93	4.74	3.01
Mercury (7471B)	20	610	NA	NA	-	-	-	<0.03	0.04	-	-	0.07	<0.03	<0.03	<0.03	<0.01	0.04	-	<0.03	-	0.09	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	-	18.2	18.8	-	-	24.8	29	29.3	23.8	20.4	22.4	-	30.9	-	18.4	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	-	<1.6	<1.6	-	-	<1.7	<1.8	<1.6	<1.8	<2.0	<1.5	-	<1.6	-	<1.6	-	-	-	-
Silver	340	10,000	NA	NA	-	-	-	<0.39	<0.41	-	-	<0.42	<0.45	<0.40	<0.44	<0.51	<0.37	-	<0.41	-	<0.41	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	-	<3.5	<3.7	-	-	<3.8	<4.1	<3.6	<4.0	<4.6	<3.3	-	<3.7	-	<3.7	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	23.8	22.3	-	-	30.8	35.3	35.6	29.2	27	33.7	-	36.5	-	24.5	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	47	44.7	-	-	61.5	70.7	71.4	56.8	52	55.9	-	74.6	-	75.2	-	-	-	-
SPLP Metals 6010D (mg/L)																									
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	0.011	0.013	-	-	0.015	-	0.025	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	<0.001	<0.001	-	-	-	-	<0.001	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.010	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	<0.010	<0.010	-	-	-	-	<0.010	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	<0.010	<0.010	-	-	-	-	<0.010	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																									
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Pesticides 8081B (ug/L)																									
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																									
Aroclor-1260	NE	NE	NA	NA	-	-	-	<0.38	<0.38	-	-	<0.41	<0.44	<0.44	<0.44	<0.7	<0.4	-	<0.44	-	<0.39	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	ND	ND	-	-	ND	ND	ND	ND	ND	ND	-	ND	-	ND	-	-	-	-
Herbicides 8151A (mg/Kg)																									
Varies	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CTDEEP RSRs - Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)
 CT ETPH - Connecticut Department of Public Health
 Extractable Total Petroleum Hydrocarbons
 NE - Not established; NA - Not Applicable
 <xx indicates compound was not reported above laboratory limits.
 "-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above
 Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-79	B-80	B-81	B-82	B-83	B-84	B-85	B-86	B-88	DUP-8	B-89	B-89	B-90	B-91	B-92	B-92	B-93	B-94	B-95	B-96	B-97
	RES	I/C	GB	GWPC	11 - 12 ft	10 - 11 ft	10 - 11 ft	1 - 3 ft	0.5 - 2.5 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	1 - 3 ft	1 - 3 ft	3 - 5 ft	8 - 10 ft	0.5 - 2.5 ft	3 - 5 ft	2 - 4 ft	8 - 10 ft	1 - 2.5 ft	3 - 5 ft	3 - 5 ft	3 - 5 ft	3 - 5 ft
Sample Depth					5/18/2023	5/18/2023	5/18/2023	4/28/2023	4/28/2023	5/4/2023	5/5/2023	5/5/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	5/1/2023	5/17/2023	5/17/2023	4/28/2023	4/27/2023	4/27/2023	4/27/2023	4/27/2023
Lab Sample ID					CO09178	CO09179	CO09180	CN93818	CN93819	CN97939	CN98859	CN98856	CO08010	CO08011	CO08013	CO08014	CO08015	CN94967	CO08016	CO08017	CN93820	CN92788	CN92789	CN92790	CN92791
Lab Report ID	DEC	DEC	PMC	x10	GCO09163	GCO09163	GCO09163	GCN93805	GCN93805	GCN97920	GCN98846	GCN98846	GCO08002	GCO08002	GCO08002	GCO08002	GCO08002	GCN94953	GCO08002	GCO08002	GCN93805	GCN92786	GCN92786	GCN92786	GCN92786
Parent Sample ID														CO08010											
Dioxane 8270D (mg/Kg)																									
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycol 8015D (mg/Kg)																									
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs 8260C (mg/Kg)																									
Benzene	21	200	0.2	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	0.23	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Butylbenzene, n-	500	1,000	70	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Butylbenzene, sec-	500	1,000	70	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Carbon disulfide	500	1,000	8	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	500	1,000	10.1	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Naphthalene	1,000	2,500	56	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	77	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Propylbenzene, n-	500	1,000	10	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Tetrahydrofuran	61	570	0.8	NA	<0.013	<0.012	<0.0099	<0.011	<0.01	<0.011	<0.013	<0.01	<0.017	<0.012	<0.012	<0.014	<0.012	<0.8	<0.011	<0.011	<0.01	<0.014	<0.011	0.012	<0.01
Toluene	500	1,000	67	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	1.3	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Xylene (Total)	500	1,000	19.5	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Xylene, m,p-	NE	NE	NE	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
Xylene, o-	NE	NE	NE	NA	<0.0063	<0.006	<0.0049	<0.0053	<0.0052	<0.0057	<0.0064	<0.0051	<0.0083	<0.0059	<0.006	<0.0071	<0.0059	<0.73	<0.0054	<0.0054	<0.0052	<0.0071	<0.0054	<0.0061	<0.0051
SVOCs 8270D (mg/Kg)																									
Acenaphthene	1,000	2,500	84	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	<0.27	<0.3	<0.29	<0.27	<0.26
Acenaphthylene	1,000	2,500	84	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	<0.27	<0.3	<0.29	<0.27	<0.26
Anthracene	1,000	2,500	400	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	<0.27	<0.3	<0.29	<0.27	<0.26
Benzo(a)anthracene	1	7.8	1	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	0.39	<0.3	<0.29	<0.27	<0.26
Benzo(a)pyrene	1	1	1	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	0.46	<0.3	<0.29	<0.27	<0.26
Benzo(b)fluoranthene	1	7.8	1	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	0.54	<0.3	<0.29	<0.27	<0.26
Benzo(g,h,i)perylene	8.4	78	1	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.7	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	0.31	<0.3	<0.29	<0.27	<0.26
Benzo(k)fluoranthene	8.4	78	1	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	<0.27	<0.3	<0.29	<0.27	<0.26
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	<0.38	<0.38	-	-	<0.42	<0.44	<0.43	<0.44	<0.47	<0.4	-	<0.44	-	<0.39	-	-	-	-
Carbazole	31	290	1	NA	-	-	-	<0.38	<0.38	-	-	<0.42	<0.44	<0.43	<0.44	<0.47	<0.4	-	<0.44	-	<0.39	-	-	-	-
Chrysene	84	780	1	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	0.42	<0.3	<0.29	<0.27	<0.26
Dibenz(a,h)anthracene	1	1	1	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.7	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	<0.27	<0.3	<0.29	<0.27	<0.26
Fluoranthene	1,000	2,500	56	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	0.64	<0.3	<0.29	<0.27	<0.26
Fluorene	1,000	2,500	56	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	<0.27	<0.3	<0.29	<0.27	<0.26
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.7	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0.31	0.3	<0.3	<0.29	<0.27	<0.26
Methylnaphthalene, 2-	270	1,000	5.6	NA	<0.33	<0.31	-	<0.26	<0.27	<0.27	<0.31	<0.29	<0.31	<0.3	<0.31	<0.33	<0.28	-	<0.31	<0					

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-98	B-99	B-100	B-101	B-102	B-105	DUP-3	B-106	B-107	B-108	B-109	B-110	B-111	B-112	B-113	B-114	B-115	B-116	B-117	B-117	B-118
	RES	I/C	GB	GWPC	3 - 5 ft	5 - 6 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	3 - 5 ft	3 - 5 ft	2 - 4 ft	0.5 - 2.5 ft	1 - 2 ft	1 - 3 ft	3 - 5 ft	2 - 4 ft	0 - 2 ft	2 - 4 ft	0 - 2 ft	1 - 3 ft	1 - 3 ft	0.25 - 2.25 ft	8 - 10 ft	0 - 2 ft
Sample Depth					4/27/2023	4/28/2023	4/28/2023	5/17/2023	5/17/2023	5/1/2023	5/1/2023	5/5/2023	5/4/2023	5/18/2023	5/5/2023	5/5/2023	5/5/2023	4/27/2023	4/27/2023	4/27/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	5/19/2023
Lab Sample ID					CN92795	CN93821	CN93822	CO08012	CO08018	CN94968	CN94969	CN98860	CN97940	CO09181	CN98861	CN98862	CN98863	CN92792	CN92793	CN92794	CO08019	CO08020	CO08021	CO08022	CO10275
Lab Report ID	DEC	DEC	PMC	x10	GCN92786	GCN93805	GCN93805	GCO08002	GCO08002	GCN94953	GCN94953	GCN98846	GCN97920	GCO09163	GCN98846	GCN98846	GCN98846	GCN92786	GCN92786	GCN92786	GCO08002	GCO08002	GCO08002	GCO08002	GCO10275
Parent Sample ID										CN94968															
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	<59	<60	<63	<73	<66	110	110	<56	<60	620	<58	<63	<63	<62	<63	<53	<62	<62	<64	<64	770
PFAS CT DEEP (mg/Kg)																									
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (ng/L)																									
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010D (mg/Kg)																									
Antimony	27	8,200	NA	NA	-	-	-	-	-	-	-	<3.9	-	<3.2	-	-	-	-	-	-	-	-	-	-	-
Arsenic	10	10	NA	NA	-	-	-	-	-	-	-	1.81	3.36	0.89	-	-	-	-	-	-	-	-	-	-	2.36
Barium	4,700	140,000	NA	NA	-	-	-	-	-	-	-	35.3	60	33.2	-	-	-	-	-	-	-	-	-	-	62.6
Beryllium	2	2	NA	NA	-	-	-	-	-	-	-	<0.32	-	<0.26	-	-	-	-	-	-	-	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	-	-	-	-	-	0.8	0.4	0.38	-	-	-	-	-	-	-	-	-	-	0.9
Chromium (Total)	NE	NE	NA	NA	-	-	-	-	-	-	-	15.6	23	9.86	-	-	-	-	-	-	-	-	-	-	13.2
Copper	2,500	76,000	NA	NA	-	-	-	-	-	-	-	10.6	-	47	-	-	-	-	-	-	-	-	-	-	-
Lead	400	1,000	NA	NA	3.82	-	-	-	-	-	-	2.58	5.34	7.95	3.48	16.8	7.97	40.7	7.55	7.46	6.9	19.4	24.6	5.25	22.3
Mercury (7471B)	20	610	NA	NA	-	-	-	-	-	-	-	<0.03	<0.03	0.1	-	-	-	-	-	-	-	-	-	-	<0.03
Nickel	1,400	7,500	NA	NA	-	-	-	-	-	-	-	15.2	-	13.4	-	-	-	-	-	-	-	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	-	-	-	-	-	<1.6	<1.6	<1.3	-	-	-	-	-	-	-	-	-	-	<1.4
Silver	340	10,000	NA	NA	-	-	-	-	-	-	-	<0.39	<0.40	<0.32	-	-	-	-	-	-	-	-	-	-	<0.34
Thallium	5.4	160	NA	NA	-	-	-	-	-	-	-	<3.6	-	<2.9	-	-	-	-	-	-	-	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	-	-	-	-	19.6	-	64.7	-	-	-	-	-	-	-	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	-	-	-	-	37.1	-	39.3	-	-	-	-	-	-	-	-	-	-	-
SPLP Metals 6010D (mg/L)																									
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																									
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0073
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0073
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.025
SPLP Pesticides 8081B (ug/L)																									
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																									
Aroclor-1260	NE	NE	NA	NA	-	<0.41	<0.42	<0.69	<0.92	-	-	<0.38	-	<0.35	-	-	-	-	-	-	-	-	-	-	<0.36
PCBs (Total)	1	10	NA	NA	-	ND	ND	ND	ND	-	-	ND	-	ND	-	-	-	-	-	-	-	-	-	-	ND
Herbicides 8151A (mg/Kg)																									
Varies	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CTDEEP RSRs - Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)
 CT ETPH - Connecticut Department of Public Health
 Extractable Total Petroleum Hydrocarbons
 NE - Not established; NA - Not Applicable
 <xx indicates compound was not reported above laboratory limits.
 "-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above
 Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-98	B-99	B-100	B-101	B-102	B-105	DUP-3	B-106	B-107	B-108	B-109	B-110	B-111	B-112	B-113	B-114	B-115	B-116	B-117	B-117	B-118
	RES	I/C	GB	GWPC	3 - 5 ft	5 - 6 ft	8 - 10 ft	8 - 10 ft	8 - 10 ft	3 - 5 ft	3 - 5 ft	2 - 4 ft	0.5 - 2.5 ft	1 - 2 ft	1 - 3 ft	3 - 5 ft	2 - 4 ft	0 - 2 ft	2 - 4 ft	0 - 2 ft	1 - 3 ft	1 - 3 ft	0.25 - 2.25 ft	8 - 10 ft	0 - 2 ft
Sample Depth					4/27/2023	4/28/2023	4/28/2023	5/17/2023	5/17/2023	5/1/2023	5/1/2023	5/5/2023	5/4/2023	5/18/2023	5/5/2023	5/5/2023	5/5/2023	4/27/2023	4/27/2023	4/27/2023	5/17/2023	5/17/2023	5/17/2023	5/17/2023	5/19/2023
Lab Sample ID					CN92795	CN93821	CN93822	CO08012	CO08018	CN94968	CN94969	CN98860	CN97940	CO09181	CN98861	CN98862	CN98863	CN92792	CN92793	CN92794	CO08019	CO08020	CO08021	CO08022	CO10275
Lab Report ID	DEC	DEC	PMC	x10	GCN92786	GCN93805	GCN93805	GCO08002	GCO08002	GCN94953	GCN94953	GCN98846	GCN97920	GCO09163	GCN98846	GCN98846	GCN98846	GCN92786	GCN92786	GCN92786	GCO08002	GCO08002	GCO08002	GCO08002	GCO10275
Parent Sample ID											CN94968														
Dioxane 8270D (mg/Kg)																									
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	<0.079	<0.083	<0.086	-	-	-	-	-	-	-	
Glycol 8015D (mg/Kg)																									
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	<13	<16	-	-	-	-	-	-	-	-	
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	<13	<16	-	-	-	-	-	-	-	-	
VOCs 8260C (mg/Kg)																									
Benzene	21	200	0.2	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.0048	
Butylbenzene, n-	500	1,000	70	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Butylbenzene, sec-	500	1,000	70	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Carbon disulfide	500	1,000	8	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.0048	
Dioxane, 1,4-	6.1	57	0.6	NA	-	<0.078	<0.096	<0.1	<0.098	<0.07	<0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	500	1,000	10.1	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.0048	
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Naphthalene	1,000	2,500	56	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Propylbenzene, n-	500	1,000	10	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Tetrahydrofuran	61	570	0.8	NA	<0.012	<0.01	<0.013	<0.014	<0.013	<0.0094	<0.0088	<0.011	-	<0.016	-	-	<0.011	<0.012	0.012	<0.0089	<0.011	<0.013	<0.013	<0.0097	
Toluene	500	1,000	67	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.0048	
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.31	
Xylene (Total)	500	1,000	19.5	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.0048	
Xylene, m,p-	NE	NE	NE	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.0048	
Xylene, o-	NE	NE	NE	NA	<0.006	<0.0052	<0.0064	<0.0069	<0.0066	<0.0047	<0.0044	<0.0057	-	<0.0081	-	-	<0.0056	<0.0058	<0.0046	<0.0044	<0.0054	<0.0067	<0.0063	<0.0048	
SVOCs 8270D (mg/Kg)																									
Acenaphthene	1,000	2,500	84	NA	<0.27	<0.28	<0.3	<0.34	<0.31	<0.25	<0.25	<0.26	<0.28	0.61	-	-	<0.29	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	<2.5	
Acenaphthylene	1,000	2,500	84	NA	<0.27	<0.28	<0.3	<0.34	<0.31	0.36	0.55	<0.26	<0.28	<0.25	-	-	<0.29	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	<2.5	
Anthracene	1,000	2,500	400	NA	<0.27	<0.28	<0.3	<0.34	<0.31	0.25	0.4	<0.26	<0.28	1.3	-	-	<0.29	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	<2.5	
Benzo(a)anthracene	1	7.8	1	NA	<0.27	<0.28	<0.3	<0.34	<0.31	1.1	2	<0.26	<0.28	10	-	-	0.66	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	5	
Benzo(a)pyrene	1	1	1	NA	<0.27	<0.28	<0.3	<0.34	<0.31	1.3	2.1	<0.26	<0.28	12	-	-	0.94	<0.3	<0.25	<0.29	<0.29	0.3	<0.3	7.9	
Benzo(b)fluoranthene	1	7.8	1	NA	<0.27	<0.28	<0.3	<0.34	<0.31	1.7	2.7	<0.26	<0.28	16	-	-	0.78	<0.3	<0.25	<0.29	<0.29	0.3	<0.3	9.2	
Benzo(g,h,i)perylene	8.4	78	1	NA	<0.27	<0.28	<0.3	<0.34	<0.31	0.61	1.1	<0.26	<0.28	6.2	-	-	0.98	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	6.8	
Benzo(k)fluoranthene	8.4	78	1	NA	<0.27	<0.28	<0.3	<0.34	<0.31	0.61	1	<0.26	<0.28	4.9	-	-	0.68	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	3.3	
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	<0.41	<0.42	<0.48	<0.44	<0.35	<0.35	<0.37	-	0.35	-	-	-	-	-	-	-	-	-	-	
Carbazole	31	290	1	NA	-	<0.41	<0.42	<0.48	<0.44	<0.35	<0.35	<0.37	-	1.3	-	-	-	-	-	-	-	-	-	-	
Chrysene	84	780	1	NA	<0.27	<0.28	<0.3	<0.34	<0.31	1.2	2.2	<0.26	<0.28	12	-	-	0.79	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	6.1	
Dibenz(a,h)anthracene	1	1	1	NA	<0.27	<0.28	<0.3	<0.34	<0.31	<0.25	0.3	<0.26	<0.28	1.6	-	-	<0.29	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	1.4	
Fluoranthene	1,000	2,500	56	NA	<0.27	<0.28	<0.3	<0.34	<0.31	1.9	3.7	<0.26	<0.28	29	-	-	1.2	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	8.4	
Fluorene	1,000	2,500	56	NA	<0.27	<0.28	<0.3	<0.34	<0.31	<0.25	0.26	<0.26	<0.28	0.66	-	-	<0.29	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	<2.5	
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	<0.27	<0.28	<0.3	<0.34	<0.31	0.7	1.2	<0.26	<0.28	6.7	-	-	1.1	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	6.3	
Methylnaphthalene, 2-	270	1,000	5.6	NA	<0.27	<0.28	<0.3	<0.34	<0.31	<0.25	<0.25	<0.26	<0.28	<0.25	-	-	<0.29	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	<2.5	
Naphthalene	1,000	2,500	56	NA	<0.27	<0.28	<0.3	<0.34	<0.31	<0.25	<0.25	<0.26	<0.28	<0.25	-	-	<0.29	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	<2.5	
Phenanthrene	1,000	2,500	40	NA	<0.27	<0.28	<0.3	<0.34	<0.31	0.92	1.4	<0.26	<0.28	12	-	-	0.42	<0.3	<0.25	<0.29	<0.29	<0.3	<0.3	<2.5	
Pyrene	1,000	2,500	40	NA	<0.27	<0.28	<0.3	<0.34	<0.31	1.8															

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-120	B-121	B-122	B-123	B-124	B-125	DUP-12	B-127	B-131	B-132	B-133	DUP-9	B-134	B-135	B-143	B-144	B-145	B-146	HA-1	HA-2	HA-3
	RES	I/C	GB	GWPC	0 - 2 ft	9 - 10 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	1 - 3 ft	0 - 2 ft	1 - 3 ft	1 - 3 ft	0 - 2 ft	0 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft
Sample Depth	DEC	DEC	PMC	x10	5/19/2023	5/19/2023	5/19/2023	5/19/2023	5/19/2023	5/19/2023	5/19/2023	5/19/2023	4/28/2023	5/3/2023	5/17/2023	5/17/2023	5/8/2023	5/22/2023	5/22/2023	5/22/2023	5/22/2023	5/22/2023	5/8/2023	5/8/2023	5/22/2023
Lab Sample ID	CO10276	CO10277	CO10278	CO10279	CO10280	CO10281	CO10282	CO10283	CO10284	CO10285	CO10286	CO10287	CN93823	CN97570	CO08023	CO08024	CO00648	CO11308	CO11309	CO11310	CO11311	CO11312	CO00632	CO00633	CO11313
Lab Report ID	DEC	DEC	PMC	x10	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275								
Parent Sample ID																									
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	1,200	<69	<62	<57	<56	<270	<260	<57	<59	<290	<57	<58	<260	<320	<62	<60	<62	<66	70	<310	<290
PFAS CT DEEP (mg/Kg)																									
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (ng/L)																									
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010D (mg/Kg)																									
Antimony	27	8,200	NA	NA	-	-	-	-	-	-	<3.8	-	-	-	-	-	-	<3.7	-	<4.2	-	-	-	-	
Arsenic	10	10	NA	NA	6.89	-	3.96	3.95	-	2.81	2.55	4.45	-	-	-	-	-	1.45	3.31	-	3.51	-	2.99	3.4	2.78
Barium	4,700	140,000	NA	NA	69.9	-	84.7	84.7	-	49.4	52.9	77.1	-	-	-	-	-	81	72.6	-	78.7	-	-	-	-
Beryllium	2	2	NA	NA	-	-	-	-	-	-	-	0.5	-	-	-	-	-	-	0.51	-	0.5	-	-	-	-
Cadmium	34	1,000	NA	NA	1.21	-	1.5	1.42	-	1.15	1.13	1.35	-	-	-	-	-	2.05	1.14	-	1.47	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	18.8	-	33	30.3	-	21.5	20.5	31.8	-	-	-	-	-	33.2	29.9	-	31.4	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	-	-	-	-	-	42.5	-	-	-	-	-	-	-	-	35.4	-	-	-	-
Lead	400	1,000	NA	NA	17.3	-	16.9	21.5	-	31.2	30.8	33.4	-	-	-	-	-	250	10.7	14.3	16.6	21.8	149	32.3	28.7
Mercury (7471B)	20	610	NA	NA	<0.03	-	0.16	0.42	-	0.23	0.37	0.16	-	-	-	-	-	0.4	0.06	-	0.1	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	-	-	-	-	-	29.6	-	-	-	-	-	-	-	27.4	-	27.6	-	-	-
Selenium	340	10,000	NA	NA	<1.4	-	<1.6	<1.5	-	<1.3	<1.4	<1.5	-	-	-	-	-	<1.9	<1.5	-	<1.7	-	-	-	-
Silver	340	10,000	NA	NA	<0.35	-	<0.41	<0.37	-	<0.33	<0.36	<0.38	-	-	-	-	-	1.58	<0.37	-	<0.42	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	-	-	-	-	-	<3.4	-	-	-	-	-	-	<3.3	-	<3.7	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	-	-	-	-	34	-	-	-	-	-	-	34.7	-	35.3	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	-	-	-	-	91.7	-	-	-	-	-	-	72	-	134	-	-	-	-
SPLP Metals 6010D (mg/L)																									
Barium	NA	NA	10	NA	-	-	<0.010	0.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	<0.010	-	-	-	-	<0.010	-	-	-	-	-	<0.010	-	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	0.013	-	-	-	-	-	-	-	-	0.015	-	-	-	-
Lead	NA	NA	0.15	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	0.111	-	-	-	<0.010	-	-	-
Mercury	NA	NA	0.02	NA	-	-	<0.0005	-	-	-	-	-	-	-	-	-	-	<0.0005	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	<0.010	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.018	-	-	-	-
Pesticides 8081B (mg/Kg)																									
Chlordane	0.49	2.2	0.066	0.066	-	-	-	<0.038	-	<0.035	<0.036	-	-	-	-	-	-	-	-	-	-	-	<0.039	<0.04	<0.039
DDE, 4,4-	NE	NE	NE	NE	-	-	-	<0.0076	-	0.0076	<0.0071	-	-	-	-	-	-	-	-	-	-	-	<0.0078	<0.008	<0.0077
DDT, 4,4-	NE	NE	NE	NE	-	-	-	<0.0076	-	0.0084	<0.0071	-	-	-	-	-	-	-	-	-	-	-	<0.0078	<0.008	<0.0077
DDT (Total)	1.8	17	0.02	0.02	-	-	-	ND	-	0.016	ND	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	<0.0038	-	<0.0035	<0.0036	-	-	-	-	-	-	-	-	-	-	-	<0.0039	<0.004	<0.0039
SPLP Pesticides 8081B (ug/L)																									
NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																									
Aroclor-1260	NE	NE	NA	NA	-	-	-	<0.38	-	<0.35	<0.36	<0.38	-	-	-	-	-	<0.43	-	-	-	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	ND	-	ND	ND	ND	-	-	-	-	-	ND	-	-	-	-	-	-	-
Herbicides 8151A (mg/Kg)																									
Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BRL	BRL	-

CTDEEP RSRs - Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)
 CT ETPH - Connecticut Department of Public Health
 Extractable Total Petroleum Hydrocarbons
 NE - Not established; NA - Not Applicable
 <xx indicates compound was not reported above laboratory limits.
 "-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above
 Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria

GB PMC- Pollutant Mobility Criteria in a GB groundwater area
 Boxed values indicate exceedances of RES DEC
 Bold values indicate exceedances of I/C DEC
 Gray shaded values indicate exceedance of GB PMC

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				B-120	B-121	B-122	B-123	B-124	B-125	DUP-12	B-127	B-131	B-132	B-133	DUP-9	B-134	B-135	B-143	B-144	B-145	B-146	HA-1	HA-2	HA-3	
	RES	I/C	GB	GWPC	0 - 2 ft	9 - 10 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	0 - 2 ft	1 - 3 ft	0 - 2 ft	1 - 3 ft	1 - 3 ft	0 - 2 ft	0 - 2 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0.5 - 1 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	
Sample Depth					5/19/2023	5/19/2023	5/19/2023	5/19/2023	5/19/2023	5/19/2023	5/19/2023	5/19/2023	4/28/2023	5/3/2023	5/17/2023	5/17/2023	5/8/2023	5/22/2023	5/22/2023	5/22/2023	5/22/2023	5/22/2023	5/8/2023	5/8/2023	5/22/2023	
Lab Sample ID					CO10276	CO10277	CO10278	CO10279	CO10280	CO10281	CO10283	CO10282	CN93823	CN97570	CO08023	CO08024	CO00648	CO11308	CO11309	CO11310	CO11311	CO11312	CO11313	CO00632	CO00633	CO11313
Lab Report ID	DEC	DEC	PMC	x10	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275	GCO10275									
Parent Sample ID											CO10281					CO08023										
Dioxane 8270D (mg/Kg)																										
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glycol 8015D (mg/Kg)																										
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOCs 8260C (mg/Kg)																										
Benzene	21	200	0.2	NA	<0.0051	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.006	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Butylbenzene, n-	500	1,000	70	NA	<0.34	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Butylbenzene, sec-	500	1,000	70	NA	<0.34	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Carbon disulfide	500	1,000	8	NA	<0.0051	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.006	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	500	1,000	10.1	NA	<0.0051	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.006	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.34	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.34	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.34	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Naphthalene	1,000	2,500	56	NA	<0.34	0.38	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Propylbenzene, n-	500	1,000	10	NA	<0.34	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Tetrahydrofuran	61	570	0.8	NA	<0.01	<0.011	<0.011	<0.0099	-	<0.0077	<0.011	<0.011	-	<0.0091	<0.0094	<0.0095	<0.0085	<0.012	<0.01	<0.011	<0.0095	<0.011	<0.013	<0.011	<0.011	
Toluene	500	1,000	67	NA	<0.0051	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.006	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.34	0.0088	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.34	0.01	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.44	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Xylene (Total)	500	1,000	19.5	NA	<0.0051	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.006	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Xylene, m,p-	NE	NE	NE	NA	<0.0051	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.006	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
Xylene, o-	NE	NE	NE	NA	<0.0051	<0.0057	<0.0053	<0.0049	-	<0.0039	<0.0054	<0.0053	-	<0.0045	<0.0047	<0.0048	<0.0042	<0.006	<0.0052	<0.0055	<0.0047	<0.0054	<0.0067	<0.0057	<0.0056	
SVOCs 8270D (mg/Kg)																										
Acenaphthene	1,000	2,500	84	NA	<2.6	-	<0.29	<0.26	-	<0.25	<0.25	<0.27	-	<0.27	<0.27	<0.28	<0.24	<1.5	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	<0.27	
Acenaphthylene	1,000	2,500	84	NA	<2.6	-	<0.29	<0.26	-	0.94	1.4	<0.27	-	<0.27	<0.27	<0.28	<0.24	<1.5	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	<0.27	
Anthracene	1,000	2,500	400	NA	<2.6	-	<0.29	<0.26	-	0.31	0.49	<0.27	-	<0.27	<0.27	<0.28	<0.24	<1.5	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	<0.27	
Benzo(a)anthracene	1	7.8	1	NA	3.3	-	<0.29	0.65	-	2.5	3.3	<0.27	-	1.4	<0.27	<0.28	<0.24	2	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	1	
Benzo(a)pyrene	1	1	1	NA	3.6	-	<0.29	0.88	-	3.8	4.9	<0.27	-	2	<0.27	<0.28	<0.24	2.5	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	1.5	
Benzo(b)fluoranthene	1	7.8	1	NA	4.2	-	<0.29	0.87	-	3.9	5	<0.27	-	3.2	<0.27	<0.28	<0.24	3.2	<0.29	<0.28	<0.29	<0.31	<0.27	0.3	2.4	
Benzo(g,h,i)perylene	8.4	78	1	NA	3.3	-	<0.29	0.51	-	1.8	2.6	<0.27	-	1.6	<0.27	<0.28	<0.24	2.2	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	1	
Benzo(k)fluoranthene	8.4	78	1	NA	1.7	-	<0.29	0.29	-	1.4	1.7	<0.27	-	1	<0.27	<0.28	<0.24	1.2	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	0.89	
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	-	-	-	-	<0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbazole	31	290	1	NA	-	-	-	-	-	-	-	<0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	84	780	1	NA	3.4	-	<0.29	0.65	-	2.6	3.4	<0.27	-	2.3	<0.27	<0.28	<0.24	2.3	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	1.8	
Dibenz(a,h)anthracene	1	1	1	NA	<1	-	<0.29	<0.26	-	0.35	0.5	<0.27	-	0.38	<0.27	<0.28	<0.24	<1	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	<0.27	
Fluoranthene	1,000	2,500	56	NA	6.2	-	<0.29	1	-	4.3	5.9	<0.27	-	3.5	<0.27	<0.28	<0.24	3.7	<0.29	<0.28	<0.29	<0.31	0.3	0.39	2.7	
Fluorene	1,000	2,500	56	NA	<2.6	-	<0.29	<0.26	-	<0.25	<0.25	<0.27	-	<0.27	<0.27	<0.28	<0.24	<1.5	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	<0.27	
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	3.1	-	<0.29	0.49	-	1.8	2.6	<0.27	-	1.6	<0.27	<0.28	<0.24	2.1	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	1.1	
Methylnaphthalene, 2-	270	1,000	5.6	NA	<2.6	-	<0.29	<0.26	-	<0.25	<0.25	<0.27	-	<0.27	<0.27	<0.28	<0.24	<1.5	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	<0.27	
Naphthalene	1,000	2,500	56	NA	<2.6	-	<0.29	<0.26	-	0.42	0.63	<0.27	-	<0.27	<0.27	<0.28	<0.24	<1.5	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	<0.27	
Phenanthrene	1,000	2,500	40	NA	4	-	<0.29	<0.26	-	<0.25	0.27	<0.27	-	1.2	<0.27	<0.28	<0.24	1.8	<0.29	<0.28	<0.29	<0.31	<0.27	<0.28	0.97	
Pyrene	1,000	2,500	40																							

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				HA-4	HA-5	HA-6	HA-7	HA-8	HA-9	HA-10	HA-11	DUP-13	HA-12A	HA-12B	HA-13	HA-14	HA-15	HA-16	HA-17	HA-18	HA-19	HA-20	HA-21	HA-22
	RES	I/C	GB	GWPC	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft							
Sample Depth					5/22/2023	5/8/2023	5/22/2023	5/8/2023	5/22/2023	5/8/2023	5/8/2023	5/22/2023	5/22/2023	5/9/2023	5/9/2023	5/22/2023	5/8/2023	5/8/2023	5/3/2023	5/8/2023	5/8/2023	5/8/2023	5/3/2023	5/8/2023	5/3/2023
Lab Sample ID	RES	I/C	GB	GWPC	CO11314	CO00634	CO11315	CO00635	CO11316	CO00636	CO00637	CO11317	CO11323	CO01217	CO01218	CO11318	CO00649	CO00638	CN97567	CO00639	CO00640	CO00641	CN97568	CO00650	CN97569
Lab Report ID	DEC	DEC	PMC	x10	GCO11308	GCO00632	GCO11308	GCO00632	GCO11308	GCO00632	GCO00632	GCO11308	GCO11308	GCO01217	GCO01217	GCO11308	GCO00632								
Parent Sample ID													CO11317												
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	650	<300	<320	<290	<310	<63	<64	3,600	1,800	700	1,200	<300	<310	<58	220	<61	<58	<60	190	<320	190
PFAS CT DEEP (mg/Kg)																									
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (ng/L)																									
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010D (mg/Kg)																									
Antimony	27	8,200	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	10	10	NA	NA	2.98	4	3.64	2.86	2.68	4.83	5.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	4,700	140,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	2	2	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	1,000	NA	NA	19.6	63	33.1	30.7	31.4	41.4	51.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (7471B)	20	610	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Metals 6010D (mg/L)																									
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	<0.010	-	-	-	<0.010	<0.010	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																									
Chlordane	0.49	2.2	0.066	0.066	<0.04	<0.04	<0.043	<0.038	<0.041	<0.042	<0.043	-	<0.038	-	-	-	-	-	-	-	-	-	-	-	-
DDE, 4,4-	NE	NE	NE	NE	<0.008	0.015	<0.0086	<0.0077	<0.0081	<0.0085	<0.0086	-	0.18	-	-	-	-	-	-	-	-	-	-	-	-
DDT, 4,4-	NE	NE	NE	NE	0.009	0.01	<0.0086	<0.0077	<0.0081	<0.0085	<0.0086	-	0.62	-	-	-	-	-	-	-	-	-	-	-	-
DDT (Total)	1.8	17	0.02	0.02	0.009	0.025	ND	ND	ND	ND	ND	-	0.8	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	0.038	0.36	0.007	0.007	<0.004	<0.004	<0.0043	<0.0038	<0.0041	<0.0042	<0.0043	-	<0.0038	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Pesticides 8081B (ug/L)																									
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	BRL	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																									
Aroclor-1260	NE	NE	NA	NA	-	-	-	-	-	-	-	<0.37	-	<0.35	<0.41	<0.39	<0.41	<0.38	<0.43	<0.4	-	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	-	-	-	-	ND	-	ND	-	-	-	-	-						
Herbicides 8151A (mg/Kg)																									
Alachlor	Varies	Varies	Varies	NA	BRL	-	BRL	BRL	BRL	BRL	BRL	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CTDEEP RSRs - Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)
 CT ETPH - Connecticut Department of Public Health
 Extractable Total Petroleum Hydrocarbons
 NE - Not established; NA - Not Applicable
 <xx indicates compound was not reported above laboratory limits.
 "-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above
 Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria

GB PMC- Pollutant Mobility Criteria in a GB groundwater area
 Boxed values indicate exceedances of RES DEC
 Bold values indicate exceedances of I/C DEC
 Gray shaded values indicate exceedance of GB PMC

TABLE 2
 Summary of Soil Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				HA-4	HA-5	HA-6	HA-7	HA-8	HA-9	HA-10	HA-11	DUP-13	HA-12A	HA-12B	HA-13	HA-14	HA-15	HA-16	HA-17	HA-18	HA-19	HA-20	HA-21	HA-22	
	RES	I/C	GB	GWPC	0 - 0.5 ft																					
Sample Depth					5/22/2023	5/8/2023	5/22/2023	5/8/2023	5/22/2023	5/8/2023	5/22/2023	5/8/2023	5/22/2023	5/9/2023	5/9/2023	5/22/2023	5/8/2023	5/8/2023	5/3/2023	5/8/2023	5/8/2023	5/3/2023	5/8/2023	5/8/2023	5/3/2023	
Lab Sample ID					CO11314	CO00634	CO11315	CO00635	CO11316	CO00636	CO00637	CO11317	CO11323	CO01217	CO01218	CO11318	CO00649	CO00638	CN97567	CO00639	CO00640	CO00641	CN97568	CN97568	CO00650	CN97569
Lab Report ID	DEC	DEC	PMC	x10	GCO11308	GCO00632	GCO11308	GCO00632	GCO11308	GCO00632	GCO00632	GCO11308	GCO11308	GCO01217	GCO01217	GCO11308	GCO00632									
Parent Sample ID													CO11317													
Dioxane 8270D (mg/Kg)																										
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glycol 8015D (mg/Kg)																										
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOCs 8260C (mg/Kg)																										
Benzene	21	200	0.2	NA	<0.0059	<0.0078	<0.0063	<0.0069	<0.0059	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Butylbenzene, n-	500	1,000	70	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Butylbenzene, sec-	500	1,000	70	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Carbon disulfide	500	1,000	8	NA	<0.0059	<0.0078	<0.0063	<0.0069	<0.0059	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Dioxane, 1,4-	6.1	57	0.6	NA	<0.088	<0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	500	1,000	10.1	NA	<0.0059	<0.0078	<0.0063	<0.0069	<0.0059	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Naphthalene	1,000	2,500	56	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Propylbenzene, n-	500	1,000	10	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Tetrahydrofuran	61	570	0.8	NA	<0.012	<0.016	<0.013	<0.014	<0.012	<0.013	<0.022	-	-	-	-	-	-	-	-	-	-	-	-	<0.012	<0.013	
Toluene	500	1,000	67	NA	<0.0059	<0.0078	<0.0063	<0.0069	<0.0059	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.44	<0.0078	<0.4	<0.0069	<0.58	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Xylene (Total)	500	1,000	19.5	NA	<0.0059	<0.0078	<0.0063	<0.0069	<0.0059	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Xylene, m,p-	NE	NE	NE	NA	<0.0059	<0.0078	<0.0063	<0.0069	<0.0059	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
Xylene, o-	NE	NE	NE	NA	<0.0059	<0.0078	<0.0063	<0.0069	<0.0059	<0.0065	<0.011	-	-	-	-	-	-	-	-	-	-	-	-	<0.006	<0.0066	
SVOCs 8270D (mg/Kg)																										
Acenaphthene	1,000	2,500	84	NA	<1.4	<0.28	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	<0.3	
Acenaphthylene	1,000	2,500	84	NA	<1.4	<0.28	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	0.86	
Anthracene	1,000	2,500	400	NA	<1.4	0.33	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	0.63	
Benzo(a)anthracene	1	7.8	1	NA	1.9	2.1	-	<0.27	-	0.39	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2	2.4	
Benzo(a)pyrene	1	1	1	NA	3.3	3	-	0.31	-	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1	3	
Benzo(b)fluoranthene	1	7.8	1	NA	5.1	5	-	0.4	-	0.57	-	-	-	-	-	-	-	-	-	-	-	-	-	2.4	4.2	
Benzo(g,h,i)perylene	8.4	78	1	NA	2.3	2	-	0.3	-	0.37	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	1.8	
Benzo(k)fluoranthene	8.4	78	1	NA	1.8	1.4	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	0.82	1.3	
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbazole	31	290	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	84	780	1	NA	3.4	3.3	-	0.32	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	1.3	3	
Dibenz(a,h)anthracene	1	1	1	NA	<1	0.45	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	0.38	0.52	
Fluoranthene	1,000	2,500	56	NA	4.8	6.2	-	0.53	-	0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9	4.2	
Fluorene	1,000	2,500	56	NA	<1.4	<0.28	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	<0.3	
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	2.3	2.1	-	<0.27	-	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	1.9	
Methylnaphthalene, 2-	270	1,000	5.6	NA	<1.4	<0.28	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	<0.3	
Naphthalene	1,000	2,500	56	NA	<1.4	<0.28	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	<0.3	
Phenanthrene	1,000	2,500	40	NA	1.5	1.9	-	<0.27	-	<0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.3	1.8	
Pyrene	1,000	2,500	40	NA	3.8	4.8	-	0.63	-	0.86	-	-	-	-	-	-	-	-	-	-	-	-	-	1.7	3.6	

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TABLE 2
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 Brainard Airport
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	RES	I/C	GB	GWPC	0 - 0.5 ft	0 - 2 ft	0 - 2 ft	0 - 0.5 ft	0.25 - 0.5 ft	0.25 - 0.5 ft	0 - 0.5 ft	0.25 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	-	6/20/2023	6/20/2023	5/8/2023	5/8/2023						
Sample Depth					5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/22/2023	5/22/2023	5/3/2023	5/22/2023	5/8/2023	5/22/2023	5/8/2023	-	6/20/2023	6/20/2023	5/8/2023	5/8/2023
Lab Sample ID					CO01219	CO01220	CO01221	CO01222	CO01223	CO01224	CO01225	CO01226	CO01227	CO01228	CO11319	CO11320	CN97571	CO11321	CO00651	CO11322	CO00642	CO32465	CO32466	CO00643	CO00644	CO00644
Lab Report ID	DEC	DEC	PMC	x10	GCO01217	GCO01217	GCO01217	GCO01217	GCO01217	GCO01217	GCO01217	GCO01217	GCO01217	GCO01217	GCO11308	GCO11308	GCO11308	GCO11308	GCO00632	GCO11308	GCO00632	GCO32465	GCO32465	GCO00632	GCO00632	
Parent Sample ID																										
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	410	<58	<57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PFAS CT DEEP (mg/Kg)																										
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.000243	-	-	-	
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00176	-	-	-	
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.000243	-	-	-	
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00176	-	-	-	
PFAS CT DEEP (ng/L)																										
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1.89	-	-	
Metals 6010D (mg/Kg)																										
Antimony	27	8,200	NA	NA	-	<3.9	<3.7	-	-	-	-	-	-	-	-	-	-	-	<3.4	-	-	-	-	-	-	
Arsenic	10	10	NA	NA	-	3.76	2.95	-	-	-	-	-	-	-	-	-	-	-	1.83	-	-	-	-	-	-	
Barium	4,700	140,000	NA	NA	-	61.2	52.3	-	-	-	-	-	-	-	-	-	-	-	49.2	-	-	-	-	-	-	
Beryllium	2	2	NA	NA	-	0.41	0.36	-	-	-	-	-	-	-	-	-	-	-	0.34	-	-	-	-	-	-	
Cadmium	34	1,000	NA	NA	-	1.15	1.16	-	-	-	-	-	-	-	-	-	-	-	1.35	-	-	-	-	-	-	
Chromium (Total)	NE	NE	NA	NA	-	24	20.9	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	
Copper	2,500	76,000	NA	NA	-	51.4	30.7	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	
Lead	400	1,000	NA	NA	-	50.8	28.4	231	-	123	108	521	78.4	123	-	-	37.8	-	11.9	-	-	-	-	25.1	39.7	
Mercury (7471B)	20	610	NA	NA	-	0.38	0.08	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	
Nickel	1,400	7,500	NA	NA	-	21.8	22	-	-	-	-	-	-	-	-	-	-	-	15.7	-	-	-	-	-	-	
Selenium	340	10,000	NA	NA	-	<1.6	<1.5	-	-	-	-	-	-	-	-	-	-	-	<1.3	-	-	-	-	-	-	
Silver	340	10,000	NA	NA	-	<0.39	<0.37	-	-	-	-	-	-	-	-	-	-	-	<0.34	-	-	-	-	-	-	
Thallium	5.4	160	NA	NA	-	<3.5	<3.3	-	-	-	-	-	-	-	-	-	-	-	<3.0	-	-	-	-	-	-	
Vanadium	470	14,000	NA	NA	-	30.2	34.6	-	-	-	-	-	-	-	-	-	-	-	35.8	-	-	-	-	-	-	
Zinc	20,000	610,000	NA	NA	-	98.9	99.3	-	-	-	-	-	-	-	-	-	-	-	86.4	-	-	-	-	-	-	
SPLP Metals 6010D (mg/L)																										
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	NA	NA	0.15	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.010	
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.010	-	-	-	-	-	-	
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pesticides 8081B (mg/Kg)																										
Chlordane	0.49	2.2	0.066	0.066	-	<0.038	-	<0.066	<0.034	<0.039	-	<0.04	<0.039	<0.038	0.15	<0.047	<0.042	<0.039	<0.037	0.17	<0.035	-	-	-	-	
DDE, 4,4-	NE	NE	NE	NE	-	<0.02	-	0.42	<0.0068	0.038	-	<0.008	0.012	0.13	0.079	0.027	<0.0083	<0.0077	<0.0073	0.077	0.011	-	-	-	-	
DDT, 4,4-	NE	NE	NE	NE	-	<0.02	-	0.39	<0.0068	0.066	-	<0.008	0.065	0.11	0.1	0.027	<0.0083	<0.0077	<0.0073	0.081	0.0095	-	-	-	-	
DDT (Total)	1.8	17	0.02	0.02	-	ND	-	1.3	ND	0.104	-	ND	0.077	0.25	0.2	0.054	ND	ND	ND	0.158	0.021	-	-	-	-	
Dieldrin	0.038	0.36	0.007	0.007	-	<0.0038	-	<0.029	<0.0034	<0.0039	-	<0.004	<0.0039	<0.0038	0.015	0.0084	<0.0042	<0.0039	0.011	0.03	0.0043	-	-	-	-	
SPLP Pesticides 8081B (ug/L)																										
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	BRL	-	-	-	-	-	BRL	-	-	-	-	
PCBs 8082A (mg/Kg)																										
Aroclor-1260	NE	NE	NA	NA	-	<0.38	-	<0.36	-	<0.39	<0.38	<0.4	<0.39	<0.38	-	-	<0.42	-	0.53	-	-	-	-	-	-	
PCBs (Total)	1	10	NA	NA	-	ND	-	ND	-	ND	ND	ND	ND	ND	-	-	ND	-	0.53	-	-	-	-	-	-	
Herbicides 8151A (mg/Kg)																										
Varies	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

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	RES	I/C	GB	GWPC	0 - 0.5 ft	0 - 2 ft	0 - 2 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0.25 - 0.5 ft	0.25 - 0.5 ft	0 - 0.5 ft	0.25 - 0.5 ft	0 - 0.5 ft	-	0 - 0.5 ft	0 - 0.5 ft			
Sample Depth					5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/9/2023	5/22/2023	5/22/2023	5/3/2023	5/22/2023	5/8/2023	5/22/2023	5/8/2023	6/20/2023	6/20/2023	5/8/2023	5/8/2023
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Parent Sample ID																									
Dioxane 8270D (mg/Kg)																									
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycol 8015D (mg/Kg)																									
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs 8260C (mg/Kg)																									
Benzene	21	200	0.2	NA	<0.0051	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, n-	500	1,000	70	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec-	500	1,000	70	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	500	1,000	8	NA	<0.0051	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	500	1,000	10.1	NA	<0.0051	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1,000	2,500	56	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	500	1,000	10	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran	61	570	0.8	NA	<0.01	<0.013	<0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	500	1,000	67	NA	<0.0051	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.34	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene (Total)	500	1,000	19.5	NA	<0.0051	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m,p-	NE	NE	NE	NA	<0.0051	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	NE	NE	NE	NA	<0.0051	<0.0064	<0.0086	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SVOCs 8270D (mg/Kg)																									
Acenaphthene	1,000	2,500	84	NA	<0.25	<0.27	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.29	<0.3
Acenaphthylene	1,000	2,500	84	NA	<0.25	0.35	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.38	<0.3
Anthracene	1,000	2,500	400	NA	<0.25	<0.27	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.29	<0.3
Benzo(a)anthracene	1	7.8	1	NA	0.45	1.1	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	<0.3
Benzo(a)pyrene	1	1	1	NA	0.61	1.2	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.42	<0.3
Benzo(b)fluoranthene	1	7.8	1	NA	0.92	1.3	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.41	<0.3
Benzo(g,h,i)perylene	8.4	78	1	NA	0.63	0.61	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.36	<0.3
Benzo(k)fluoranthene	8.4	78	1	NA	0.29	0.46	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.29	<0.3	<0.3
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	<0.38	<0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	31	290	1	NA	-	<0.38	<0.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	84	780	1	NA	0.56	1.1	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	<0.3
Dibenz(a,h)anthracene	1	1	1	NA	<0.25	<0.27	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.29	<0.3
Fluoranthene	1,000	2,500	56	NA	1.2	1.5	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.53	<0.3
Fluorene	1,000	2,500	56	NA	<0.25	<0.27	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.29	<0.3
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	0.64	0.64	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.3	<0.3
Methylnaphthalene, 2-	270	1,000	5.6	NA	<0.25	<0.27	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.29	<0.3
Naphthalene	1,000	2,500	56	NA	<0.25	<0.27	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.29	<0.3
Phenanthrene	1,000	2,500	40	NA	0.65	0.64	<0.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.29	<0.3
Pyrene	1,000	2,500	40	NA	1	1.5	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.66	<0.3

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TABLE 2
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 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				HA-45	HA-46	HA-47	HA-48	HA-49	HA-50	HA-51	HA-52	HA-53	HA-54	HA-55	HA-56	HA-57	HA-58	HA-59	DUP081023	Equipment Blank	TB042723H	TB042723L	TB042823H
	RES	I/C	GB	GWPC	0 - 0.5 ft	8/10/2023	8/10/2023	4/27/2023	4/27/2023	4/28/2023														
Sample Depth					5/8/2023	5/8/2023	5/8/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	4/27/2023	4/27/2023	4/28/2023
Lab Sample ID	RES	I/C	GB	GWPC	CO00645	CO00646	CO00647	CO71457	CO71458	CO71459	CO71460	CO71461	CO71462	CO71463	CO71464	CO71465	CO71466	CO71467	CO71468	CO71469	CO71471	CN92798	CN92797	CN93825
Lab Report ID	DEC	DEC	PMC	x10	GCO00632	GCO00632	GCO00632	GCO71457	GCO71457	GCO71457	GCO71457	GCO71457	GCO71457											
Parent Sample ID																								
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	-	-	-	<60	<61	<63	<340	97	<63	<66	<66	<63	99	<57	93	<290	-	-	-	-
PFAS CT DEEP (mg/Kg)																								
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	<0.000298	0.00204	<0.000288	<0.000342	<0.000305	<0.000299	<0.000336	<0.000312	<0.000305	<0.000310	<0.000297	<0.000289	<0.000294	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	0.00114	0.0386	0.00184	0.00287	0.00295	0.0018	0.00229	0.00141	0.00166	0.00263	0.00075	0.00111	0.00139	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	<0.000298	<0.000308	<0.000288	0.000371	<0.000305	0.000037	0.000497	<0.000312	0.000452	<0.000310	<0.000297	<0.000289	<0.000294	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	0.00114	0.04064	0.00184	0.003241	0.00295	0.00217	0.002787	0.00141	0.002112	0.00263	0.00075	0.00111	0.00139	-	-	-	-
PFAS CT DEEP (ng/L)																								
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.00	-	-	-
Metals 6010D (mg/Kg)																								
Antimony	27	8,200	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	10	10	NA	NA	-	-	-	2.34	2.95	4.55	3.05	4.22	4.12	5.56	3.39	5.23	<0.76	3.69	3.28	3.26	-	-	-	-
Barium	4,700	140,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	2	2	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	1,000	NA	NA	30.4	406	387	20.7	43.7	36.6	37.1	35.0	39.8	52.4	30.8	55.4	<0.38	31.4	30.4	31.6	-	-	-	-
Mercury (7471B)	20	610	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Metals 6010D (mg/L)																								
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	0.114	0.062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																								
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Pesticides 8081B (ug/L)																								
Barium	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																								
Aroclor-1260	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Herbicides 8151A (mg/Kg)																								
Varies	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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	RES	I/C	GB	GWPC	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	0 - 0.5 ft	8/10/2023	8/10/2023	4/27/2023	4/27/2023	4/28/2023	
Sample Depth					5/8/2023	5/8/2023	5/8/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	8/10/2023	4/27/2023	4/27/2023	4/28/2023	
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Parent Sample ID																									
Dioxane 8270D (mg/Kg)																									
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Glycol 8015D (mg/Kg)																									
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VOCs 8260C (mg/Kg)																									
Benzene	21	200	0.2	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2	<0.005	<0.2	
Butylbenzene, n-	500	1,000	70	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Butylbenzene, sec-	500	1,000	70	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Carbon disulfide	500	1,000	8	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	500	1,000	10.1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Isopropylbenzene (cumene)	500	1,000	5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Naphthalene	1,000	2,500	56	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Propylbenzene, n-	500	1,000	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Tetrahydrofuran	61	570	0.8	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	0.011	<0.5	
Toluene	500	1,000	67	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Xylene (Total)	500	1,000	19.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Xylene, m,p-	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
Xylene, o-	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	<0.005	<0.25	
SVOCs 8270D (mg/Kg)																									
Acenaphthene	1,000	2,500	84	NA	<0.29	<0.25	0.7	<0.28	<0.29	<0.3	<0.32	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
Acenaphthylene	1,000	2,500	84	NA	<0.29	0.8	0.76	<0.28	<0.29	<0.3	<0.32	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
Anthracene	1,000	2,500	400	NA	<0.29	0.63	1.9	<0.28	<0.29	<0.3	<0.32	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
Benzo(a)anthracene	1	7.8	1	NA	<0.29	1.8	4.1	<0.28	<0.29	<0.3	0.54	<0.3	0.3	<0.31	<0.3	0.31	0.48	<0.27	0.27	0.34	-	-	-	-	
Benzo(a)pyrene	1	1	1	NA	<0.29	2.4	4.6	<0.28	<0.29	<0.3	0.6	<0.3	0.33	0.31	<0.3	0.35	0.59	<0.27	0.33	0.45	-	-	-	-	
Benzo(b)fluoranthene	1	7.8	1	NA	<0.29	3	5.5	<0.28	<0.29	<0.3	0.63	<0.3	0.33	0.39	<0.3	0.4	0.63	<0.27	0.39	0.49	-	-	-	-	
Benzo(g,h,i)perylene	8.4	78	1	NA	<0.29	1.8	2.8	<0.28	<0.29	<0.3	0.4	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	0.33	-	-	-	-	
Benzo(k)fluoranthene	8.4	78	1	NA	<0.29	0.9	1.5	<0.28	<0.29	<0.3	<0.32	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbazole	31	290	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	84	780	1	NA	<0.29	1.8	4.2	<0.28	<0.29	<0.3	0.59	<0.3	<0.3	<0.31	<0.3	<0.3	0.45	<0.27	0.28	0.34	-	-	-	-	
Dibenz(a,h)anthracene	1	1	1	NA	<0.29	0.35	0.58	<0.28	<0.29	<0.3	<0.32	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
Fluoranthene	1,000	2,500	56	NA	0.35	5.1	10	<0.28	<0.29	<0.3	0.89	<0.3	0.42	0.37	<0.3	0.46	0.75	<0.27	0.49	0.28	-	-	-	-	
Fluorene	1,000	2,500	56	NA	<0.29	<0.25	0.64	<0.28	<0.29	<0.3	<0.32	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	<0.29	1.8	2.8	<0.28	<0.29	<0.3	0.36	<0.3	<0.3	<0.31	<0.3	<0.3	<0.27	<0.27	<0.27	0.31	-	-	-	-	
Methylnaphthalene, 2-	270	1,000	5.6	NA	<0.29	<0.25	<0.27	<0.28	<0.29	<0.3	<0.32	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
Naphthalene	1,000	2,500	56	NA	<0.29	<0.25	0.28	<0.28	<0.29	<0.3	<0.32	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
Phenanthrene	1,000	2,500	40	NA	<0.29	2	10	<0.28	<0.29	<0.3	0.64	<0.3	<0.3	<0.31	<0.3	<0.3	<0.28	<0.27	<0.27	<0.28	-	-	-	-	
Pyrene	1,000	2,500	40	NA	0.34	4.4	8.8	<0.28	<0.29	<0.3	1.3	<0.3	0.41	0.39	<0.3	0.48	0.79	0.28	0.48	0.28	-	-	-	-	

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Sample Name Sample Depth Sample Date Lab Sample ID Lab Report ID Parent Sample ID	CTDEEP RSR Criteria				TB042823L	TB050123H	TB050123L	TB HL	TB LL	TB050422H	TB050422L	TB050523H	TB050523L	TB050823H	TB050823L	TB050923H	TB050923L	TB051723H	TB051723L
	RES DEC	I/C DEC	GB PMC	GWPC x10	4/28/2023 CN93824 GCN93805	5/1/2023 CN94971 GCN94953	5/1/2023 CN94970 GCN94953	5/3/2023 CN97664 GCN97567	5/3/2023 CN97663 GCN97567	5/4/2023 CN97930 GCN97920	5/4/2023 CN97929 GCN97920	5/5/2023 CN98867 GCN98846	5/5/2023 CN98866 GCN98846	5/8/2023 CO00653 GCO00632	5/8/2023 CO00652 GCO00632	5/9/2023 CO01230 GCO01217	5/9/2023 CO01229 GCO01217	5/17/2023 CO08026 GCO08002	5/17/2023 CO08025 GCO08002
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (mg/Kg)																			
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PFAS CT DEEP (ng/L)																			
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals 6010D (mg/Kg)																			
Antimony	27	8,200	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	10	10	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	4,700	140,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	2	2	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	400	1,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury (7471B)	20	610	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	340	10,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Metals 6010D (mg/L)																			
Barium	NA	NA	10	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)																			
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPLP Pesticides 8081B (ug/L)	NA	NA	NA	Varies	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs 8082A (mg/Kg)																			
Aroclor-1260	NE	NE	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Herbicides 8151A (mg/Kg)	Varies	Varies	Varies	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 VOCs - Volatile Organic Compounds
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TABLE 2
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 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 8/29/2023 (J. Jackson)

Sample Name	CTDEEP RSR Criteria				TB042823L	TB050123H	TB050123L	TB HL	TB LL	TB050422H	TB050422L	TB050523H	TB050523L	TB050823H	TB050823L	TB050923H	TB050923L	TB051723H	TB051723L
	RES	I/C	GB	GWPC	4/28/2023	5/1/2023	5/1/2023	5/3/2023	5/3/2023	5/4/2023	5/4/2023	5/5/2023	5/5/2023	5/8/2023	5/8/2023	5/9/2023	5/9/2023	5/17/2023	5/17/2023
Sample Depth					CN93824	CN94971	CN94970	CN97664	CN97663	CN97930	CN97929	CN98867	CN98866	CO00653	CO00652	CO01230	CO01229	CO08026	CO08025
Lab Sample ID	DEC	DEC	PMC	x10	GCN93805	GCN94953	GCN94953	GCN97567	GCN97567	GCN97920	GCN97920	GCN98846	GCN98846	GCO00632	GCO00632	GCO01217	GCO01217	GCO08002	GCO08002
Lab Report ID																			
Parent Sample ID																			
Dioxane 8270D (mg/Kg)																			
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Glycol 8015D (mg/Kg)																			
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VOCs 8260C (mg/Kg)																			
Benzene	21	200	0.2	NA	<0.005	<0.2	<0.005	<0.2	<0.005	<0.2	<0.005	<0.2	<0.005	<0.2	<0.005	<0.2	<0.005	<0.2	<0.005
Butylbenzene, n-	500	1,000	70	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Butylbenzene, sec-	500	1,000	70	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Carbon disulfide	500	1,000	8	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	500	1,000	10.1	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Naphthalene	1,000	2,500	56	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Propylbenzene, n-	500	1,000	10	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Tetrahydrofuran	61	570	0.8	NA	0.011	<0.5	<0.01	<0.5	<0.01	<0.5	<0.01	<0.5	<0.01	<0.5	<0.01	<0.5	<0.01	<0.5	<0.01
Toluene	500	1,000	67	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Xylene (Total)	500	1,000	19.5	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Xylene, m,p-	NE	NE	NE	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Xylene, o-	NE	NE	NE	NA	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
SVOCs 8270D (mg/Kg)																			
Acenaphthene	1,000	2,500	84	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	1,000	2,500	84	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	1,000	2,500	400	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	1	7.8	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	1	1	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	1	7.8	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	8.4	78	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	8.4	78	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	31	290	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	84	780	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	1	1	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	1,000	2,500	56	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	1,000	2,500	56	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	270	1,000	5.6	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	1,000	2,500	56	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	1,000	2,500	40	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	1,000	2,500	40	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 Results presented in milligrams per kilogram (mg/kg)
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Sample Name	CTDEEP RSR Criteria				TB-H	TB-LL	TB HL	TB LL	TB-HL	TB-LL
	RES	I/C	GB	GWPC	5/18/2023	5/18/2023	5/19/2023	5/19/2023	5/22/2023	5/22/2023
Sample Depth	DEC	DEC	PMC	x10	CO09184	CO09185	CO10284	CO10285	CO11324	CO11325
Sample Date	DEC	DEC	PMC	x10	GCO09163	GCO09163	GCO10275	GCO10275	GCO11308	GCO11308
Lab Sample ID										
Lab Report ID										
Parent Sample ID										
CTETPH 8015D (mg/Kg)	500	2,500	2,500	NA	-	-	-	-	-	-
PFAS CT DEEP (mg/Kg)										
Perfluorohexanesulfonic Acid (PFHxS)	NE	NE	NE	NA	-	-	-	-	-	-
Perfluorooctanesulfonic Acid (PFOS)	NE	NE	NE	NA	-	-	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NE	NE	NA	-	-	-	-	-	-
PFAS5 (Total)	1.35	41	0.014	NA	-	-	-	-	-	-
PFAS CT DEEP (ng/L)										
PFAS (Total)	NA	NA	NA	NA	-	-	-	-	-	-
Metals 6010D (mg/Kg)										
Antimony	27	8,200	NA	NA	-	-	-	-	-	-
Arsenic	10	10	NA	NA	-	-	-	-	-	-
Barium	4,700	140,000	NA	NA	-	-	-	-	-	-
Beryllium	2	2	NA	NA	-	-	-	-	-	-
Cadmium	34	1,000	NA	NA	-	-	-	-	-	-
Chromium (Total)	NE	NE	NA	NA	-	-	-	-	-	-
Copper	2,500	76,000	NA	NA	-	-	-	-	-	-
Lead	400	1,000	NA	NA	-	-	-	-	-	-
Mercury (7471B)	20	610	NA	NA	-	-	-	-	-	-
Nickel	1,400	7,500	NA	NA	-	-	-	-	-	-
Selenium	340	10,000	NA	NA	-	-	-	-	-	-
Silver	340	10,000	NA	NA	-	-	-	-	-	-
Thallium	5.4	160	NA	NA	-	-	-	-	-	-
Vanadium	470	14,000	NA	NA	-	-	-	-	-	-
Zinc	20,000	610,000	NA	NA	-	-	-	-	-	-
SPLP Metals 6010D (mg/L)										
Barium	NA	NA	10	NA	-	-	-	-	-	-
Beryllium	NA	NA	0.04	NA	-	-	-	-	-	-
Chromium (Total)	NA	NA	0.5	NA	-	-	-	-	-	-
Copper	NA	NA	13	NA	-	-	-	-	-	-
Lead	NA	NA	0.15	NA	-	-	-	-	-	-
Mercury	NA	NA	0.02	NA	-	-	-	-	-	-
Nickel	NA	NA	1	NA	-	-	-	-	-	-
Vanadium	NA	NA	0.5	NA	-	-	-	-	-	-
Zinc	NA	NA	50	NA	-	-	-	-	-	-
Pesticides 8081B (mg/Kg)										
Chlordane	0.49	2.2	0.066	0.066	-	-	-	-	-	-
DDE, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-
DDT, 4,4-	NE	NE	NE	NE	-	-	-	-	-	-
DDT (Total)	1.8	17	0.02	0.02	-	-	-	-	-	-
Dieldrin	0.038	0.36	0.007	0.007	-	-	-	-	-	-
SPLP Pesticides 8081B (ug/L)	NA	NA	NA	Varies	-	-	-	-	-	-
PCBs 8082A (mg/Kg)										
Aroclor-1260	NE	NE	NA	NA	-	-	-	-	-	-
PCBs (Total)	1	10	NA	NA	-	-	-	-	-	-
Herbicides 8151A (mg/Kg)	Varies	Varies	Varies	NA	-	-	-	-	-	-

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Sample Depth	DEC	DEC	PMC	x10	CO09184	CO09185	CO10284	CO10285	CO11324	CO11325
Lab Sample ID	DEC	DEC	PMC	x10	GCO09163	GCO09163	GCO10275	GCO10275	GCO11308	GCO11308
Lab Report ID	DEC	DEC	PMC	x10	GCO09163	GCO09163	GCO10275	GCO10275	GCO11308	GCO11308
Parent Sample ID	DEC	DEC	PMC	x10	GCO09163	GCO09163	GCO10275	GCO10275	GCO11308	GCO11308
Dioxane 8270D (mg/Kg)										
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-
Glycol 8015D (mg/Kg)										
Ethylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-
Propylene glycol	1,000	2,500	200	NA	-	-	-	-	-	-
VOCs 8260C (mg/Kg)										
Benzene	21	200	0.2	NA	<0.2	<0.005	<0.2	<0.005	<0.2	<0.005
Butylbenzene, n-	500	1,000	70	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Butylbenzene, sec-	500	1,000	70	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Carbon disulfide	500	1,000	8	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Dioxane, 1,4-	6.1	57	0.6	NA	-	-	-	-	-	-
Ethylbenzene	500	1,000	10.1	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Isopropylbenzene (cumene)	500	1,000	5	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Isopropyltoluene, 2- (o-Cymene)	500	1,000	5	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Isopropyltoluene, 4- (p-Cymene)	500	1,000	5	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Naphthalene	1,000	2,500	56	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Propylbenzene, n-	500	1,000	10	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Tetrahydrofuran	61	570	0.8	NA	<0.5	<0.01	<0.5	<0.01	<0.5	<0.01
Toluene	500	1,000	67	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Trimethylbenzene, 1,2,4-	500	1,000	28	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Trimethylbenzene, 1,3,5-	500	1,000	28	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Xylene (Total)	500	1,000	19.5	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Xylene, m,p-	NE	NE	NE	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
Xylene, o-	NE	NE	NE	NA	<0.25	<0.005	<0.25	<0.005	<0.25	<0.005
SVOCs 8270D (mg/Kg)										
Acenaphthene	1,000	2,500	84	NA	-	-	-	-	-	-
Acenaphthylene	1,000	2,500	84	NA	-	-	-	-	-	-
Anthracene	1,000	2,500	400	NA	-	-	-	-	-	-
Benzo(a)anthracene	1	7.8	1	NA	-	-	-	-	-	-
Benzo(a)pyrene	1	1	1	NA	-	-	-	-	-	-
Benzo(b)fluoranthene	1	7.8	1	NA	-	-	-	-	-	-
Benzo(g,h,i)perylene	8.4	78	1	NA	-	-	-	-	-	-
Benzo(k)fluoranthene	8.4	78	1	NA	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	44	410	11	NA	-	-	-	-	-	-
Carbazole	31	290	1	NA	-	-	-	-	-	-
Chrysene	84	780	1	NA	-	-	-	-	-	-
Dibenz(a,h)anthracene	1	1	1	NA	-	-	-	-	-	-
Fluoranthene	1,000	2,500	56	NA	-	-	-	-	-	-
Fluorene	1,000	2,500	56	NA	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	1	7.8	1	NA	-	-	-	-	-	-
Methylnaphthalene, 2-	270	1,000	5.6	NA	-	-	-	-	-	-
Naphthalene	1,000	2,500	56	NA	-	-	-	-	-	-
Phenanthrene	1,000	2,500	40	NA	-	-	-	-	-	-
Pyrene	1,000	2,500	40	NA	-	-	-	-	-	-

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 GB PMC - Pollutant Mobility Criteria in a GB groundwater area
 Boxed values indicate exceedances of RES DEC
 Bold values indicate exceedances of I/C DEC
 Gray shaded values indicate exceedance of GB PMC
 CT ETPH - Connecticut Department of Public Health Extractable
 Total Petroleum Hydrocarbons

NE - Not established; NA - Not Applicable
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 "-" - Sample not analyzed
 Only parameters reported above reporting limits are summarized above
 Results presented in milligrams per kilogram (mg/kg)
 PCBs - Polychlorinated Biphenyls
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 RES DEC - Residential Direct Exposure Criteria
 I/C DEC - Industrial/Commercial Direct Exposure Criteria

TABLE 3
 Summary of Groundwater Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 6/27/2023 (I. Adomeit)

Sample Name	CTDEEP RSR			TMW-1 6/7/2023 CO21852	TMW-2 6/6/2023 CO20484	TMW-3 6/1/2023 CO18107	TMW-4 6/7/2023 CO21853	DUP-5 6/7/2023 CO21860	TMW-5 6/7/2023 CO21854	TMW-6 6/1/2023 CO18108	DUP-1 6/1/2023 CO18115	TMW-7 6/6/2023 CO20485	TMW-8 6/6/2023 CO20486	TMW-9 6/7/2023 CO21855	DUP-4 6/7/2023 CO21859
	Criteria	RES	I/C												
Sample Date	SWPC	GWVC	GWVC	GCO21852	GCO20484	GCO18107	GCO21852	GCO21852	GCO21852	GCO18107	GCO18107	GCO20484	GCO20484	GCO21852	GCO21852
CTETPH 8015D (µg/L)	250	250	250	<66	<67	<66	<67	-	<66	<67	-	<66	<66	<66	<67
PFAS CT 537M List (µg/L)															
Perfluoroheptanoic Acid (PFHpA)	NE	NA	NA	-	-	<0.00192	-	-	-	0.00718	0.00686	-	-	-	-
Perfluorohexanesulfonic Acid (PFHxS)	NE	NA	NA	-	-	0.00219	-	-	-	0.0215	0.021	-	-	-	-
Perfluorononanoic Acid (PFNA)	NE	NA	NA	-	-	<0.00192	-	-	-	<0.00192	0.00193	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)	NE	NA	NA	-	-	<0.00192	-	-	-	0.0259	0.0254	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NA	NA	-	-	<0.00192	-	-	-	0.0096	0.00775	-	-	-	-
Total Regulated PFAS	NE	NA	NA	-	-	0.00219	-	-	-	0.0642	0.0629	-	-	-	-
Total Metals 6010D (µg/L)															
Antimony	86,000	NA	NA	-	<5	<5	<5	<5	-	<5	-	<5	<5	<5	<5
Arsenic	4	NA	NA	-	<4	<4	12	12	<4	<4	-	55	<4	<4	<4
Barium	2,200	NA	NA	-	61	87	286	287	75	114	-	69	18	15	15
Beryllium	4	NA	NA	-	<1	<1	<1	<1	-	<1	-	<1	<1	<1	<1
Cadmium	6	NA	NA	-	<1	<1	<1	2	<1	<1	-	<1	<1	<1	<1
Chromium (Total)	NE	NA	NA	-	<1	1	<1	<1	<1	<1	-	1	<1	<1	<1
Copper	48	NA	NA	-	<5	<5	<5	<5	-	<5	-	<5	<5	<5	<5
Lead	13	NA	NA	<1	<1	<1	2	3	<1	<1	-	3	<1	<1	<1
Mercury (7470A)	0.4	NA	NA	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2
Nickel	880	NA	NA	-	4	<1	10	9	-	1	-	2	2	6	6
Selenium	50	NA	NA	-	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10
Silver	12	NA	NA	-	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	<1
Thallium (6020B)	63	NA	NA	-	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	<0.5	<0.5	<0.5
Vanadium	270	NA	NA	-	<2	2	<2	<2	-	2	-	<2	<2	<2	<2
Zinc	123	NA	NA	-	<4	<4	10	12	-	8	-	8	<4	<4	<4
PCBs 8082A (µg/L)															
PCBs (Total)	0.5	NA	NA	-	ND	ND	ND	-	-	ND	-	ND	ND	ND	ND
SVOCs 8270D (SIM) (µg/L)															
Acenaphthene	150	30,500	50,000	<0.47	<0.47	<0.49	<0.47	-	<0.47	<0.49	-	<0.49	<0.49	<0.48	<0.48
Acenaphthylene	0.3	NE	NE	<0.28	<0.28	<0.29	<0.28	-	<0.28	<0.29	-	<0.29	<0.29	<0.29	<0.29
Benzo(a)anthracene	0.3	NE	NE	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05
Dioxane, 1,4-	960	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	14	NE	NE	<0.06	<0.06	<0.06	<0.06	-	<0.06	<0.06	-	<0.06	<0.06	<0.06	<0.06
Pyrene	110,000	NE	NE	<0.47	<0.47	<0.49	<0.47	-	<0.47	<0.49	-	<0.49	<0.49	<0.48	<0.48
SVOCs 8270D (µg/L)	Varies	Varies	Varies	BRL	-	BRL	BRL	-	-	BRL	-	BRL	BRL	BRL	BRL
VOCs 8260C (µg/L)															
Dichloroethene, cis-1,2-	6,200	NE	NE	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	2.9	<1.0	<1.0	-
Dioxane, 1,4-	960	NE	NE	<100	-	-	-	-	-	-	-	-	<40	-	-
Xylene (Total)	270	21,300	50,000	<1.0	<1.0	<1.0	<1.0	-	1.7	<1.0	-	<1.0	<1.0	<1.0	-
Xylene, m,p-	NE	NE	NE	<1.0	<1.0	<1.0	<1.0	-	1.7	<1.0	-	<1.0	<1.0	<1.0	-

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 VOCs - Volatile Organic Compounds
 SWPC - Surface Water Protection Criteria

RES GWVC - Residential Groundwater Volatilization Criteria
 I/C GWVC - Industrial/Commercial Groundwater Volatilization Criteria
 Boxed Values indicate exceedances of RES VC
 Bold values indicate exceedances of I/C VC
 Gray shaded values indicate exceedance of SWPC

TABLE 3
 Summary of Groundwater Analytical Results
 Brainard Airport
 20 Lindbergh Drive
 Hartford, Connecticut
 Last Updated: 6/27/2023 (I. Adomeit)

Sample Name	CTDEEP RSR			TMW-10	DUP-2	TMW-11	TMW-12	DUP-3	TMW-13	TMW-14	TMW-15	TMW-16	TMW-17	TMW-18	TMW-19	TMW-20	TMW-21
	Criteria	RES	I/C														
Sample Date	SWPC	GWVC	GWVC	6/6/2023	6/6/2023	6/7/2023	6/6/2023	6/6/2023	6/5/2023	6/5/2023	6/1/2023	6/6/2023	6/5/2023	6/1/2023	6/1/2023	6/5/2023	6/7/2023
Lab Sample ID				CO20487	CO20492	CO21856	CO20488	CO20493	CO19489	CO19490	CO18109	CO20489	CO19491	CO18110	CO18111	CO19492	CO21857
Lab Report ID				GCO20484	GCO20484	GCO21852	GCO20484	GCO20484	GCO19489	GCO19489	GCO18107	GCO20484	GCO19489	GCO18107	GCO18107	GCO19489	GCO21852
Parent Sample					CO20487			CO20488									
CTETPH 8015D (µg/L)	250	250	250	<70	<66	<66	<66	-	<67	<66	<69	<66	<67	<66	<66	<66	<66
PFAS CT 537M List (µg/L)																	
Perfluoroheptanoic Acid (PFHpA)	NE	NA	NA	-	-	-	-	-	-	-	0.00246	-	-	0.0371	<0.00192	-	-
Perfluorohexanesulfonic Acid (PFHxS)	NE	NA	NA	-	-	-	-	-	-	-	<0.00185	-	-	0.172	<0.00192	-	-
Perfluorononanoic Acid (PFNA)	NE	NA	NA	-	-	-	-	-	-	-	<0.00185	-	-	0.00627	<0.00192	-	-
Perfluorooctanesulfonic acid (PFOS)	NE	NA	NA	-	-	-	-	-	-	-	<0.00185	-	-	0.501	<0.00192	-	-
Perfluorooctanoic Acid (PFOA)	NE	NA	NA	-	-	-	-	-	-	-	0.00201	-	-	0.0848	<0.00192	-	-
Total Regulated PFAS	NE	NA	NA	-	-	-	-	-	-	-	0.00447	-	-	0.801	<0.00192	-	-
Total Metals 6010D (µg/L)																	
Antimony	86,000	NA	NA	-	-	<5	<5	-	-	-	<5	-	-	<5	<5	<5	-
Arsenic	4	NA	NA	-	-	<4	9	-	<4	<4	<4	<4	<4	<4	5	<4	<4
Barium	2,200	NA	NA	-	-	26	87	-	29	25	14	21	16	67	57	28	63
Beryllium	4	NA	NA	-	-	<1	<1	-	-	-	<1	-	-	<1	<1	<1	-
Cadmium	6	NA	NA	-	-	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (Total)	NE	NA	NA	-	-	3	<1	-	<1	<1	<1	1	<1	<1	<1	<1	<1
Copper	48	NA	NA	-	-	<5	<5	-	-	-	<5	-	-	<5	<5	<5	-
Lead	13	NA	NA	1	-	<1	3	-	<1	<1	<1	2	<1	<1	1	<1	<1
Mercury (7470A)	0.4	NA	NA	-	-	<0.2	<0.2	-	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Nickel	880	NA	NA	-	-	2	6	-	-	-	2	-	-	<1	1	1	-
Selenium	50	NA	NA	-	-	<10	<10	-	<10	<10	<10	<10	<10	<10	<10	<10	<10
Silver	12	NA	NA	-	-	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium (6020B)	63	NA	NA	-	-	<0.5	<0.5	-	-	-	<0.5	-	-	<0.5	<0.5	<0.5	-
Vanadium	270	NA	NA	-	-	<2	<2	-	-	-	<2	-	-	3	<2	<2	-
Zinc	123	NA	NA	-	-	<4	7	-	-	-	<4	-	-	8	8	<4	-
PCBs 8082A (µg/L)																	
PCBs (Total)	0.5	NA	NA	-	-	ND	ND	-	-	-	ND	ND	-	ND	ND	ND	ND
SVOCs 8270D (SIM) (µg/L)																	
Acenaphthene	150	30,500	50,000	<0.49	<0.47	<0.47	<0.49	-	<0.47	<0.49	<0.47	<0.49	<0.48	<0.49	<0.47	<0.47	-
Acenaphthylene	0.3	NE	NE	<0.29	<0.28	<0.28	<0.29	-	<0.28	<0.29	<0.28	<0.29	<0.29	<0.29	<0.28	<0.28	-
Benzo(a)anthracene	0.3	NE	NE	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05	-
Dioxane, 1,4-	960	NE	NE	-	-	-	-	-	-	-	<0.20	-	-	-	-	-	-
Phenanthrene	14	NE	NE	<0.06	<0.06	<0.06	<0.06	-	<0.06	0.09	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	-
Pyrene	110,000	NE	NE	<0.49	<0.47	<0.47	<0.49	-	<0.47	<0.49	<0.47	<0.49	<0.48	0.5	<0.47	<0.47	-
SVOCs 8270D (µg/L)	Varies	Varies	Varies	-	-	BRL	BRL	-	-	-	BRL	-	-	BRL	BRL	BRL	-
VOCs 8260C (µg/L)																	
Dichloroethene, cis-1,2-	6,200	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dioxane, 1,4-	960	NE	NE	-	-	-	<40	<40	<40	<40	-	<40	<40	-	-	-	-
Xylene (Total)	270	21,300	50,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene, m,p-	NE	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

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 Brainard Airport
 20 Lindbergh Drive
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 Last Updated: 6/27/2023 (I. Adomeit)

Sample Name	CTDEEP RSR			TMW-23	TMW-24	TMW-25	MW-1	MW-2	OW-1	Equipment Blank	Field Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Criteria	RES	I/C	6/1/2023	6/5/2023	6/1/2023	6/7/2023	6/6/2023	6/6/2023	6/1/2023	6/1/2023	6/1/2023	6/5/2023	6/6/2023	6/7/2023
Lab Sample ID	SWPC	GWVC	GWVC	CO18112	CO19493	CO18113	CO21858	CO20490	CO20491	CO18117	CO18116	CO18114	CO19494	CO20494	CO21861
Lab Report ID				GCO18107	GCO19489	GCO18107	GCO21852	GCO20484	GCO20484	GCO18107	GCO18107	GCO18107	GCO19489	GCO20484	GCO21852
Parent Sample															
CTETPH 8015D (µg/L)	250	250	250	<69	<67	<66	<68	<66	<66	-	-	-	-	-	-
PFAS CT 537M List (µg/L)															
Perfluoroheptanoic Acid (PFHpA)	NE	NA	NA	0.00199	-	0.015	-	-	-	<0.00192	<0.00192	-	-	-	-
Perfluorohexanesulfonic Acid (PFHxS)	NE	NA	NA	<0.00185	-	<0.00192	-	-	-	<0.00192	<0.00192	-	-	-	-
Perfluorononanoic Acid (PFNA)	NE	NA	NA	<0.00185	-	0.00685	-	-	-	<0.00192	<0.00192	-	-	-	-
Perfluorooctanesulfonic acid (PFOS)	NE	NA	NA	0.00247	-	0.00209	-	-	-	<0.00192	<0.00192	-	-	-	-
Perfluorooctanoic Acid (PFOA)	NE	NA	NA	0.00252	-	0.0111	-	-	-	<0.00192	<0.00192	-	-	-	-
Total Regulated PFAS	NE	NA	NA	0.00698	-	0.0350	-	-	-	<0.00192	<0.00192	-	-	-	-
Total Metals 6010D (µg/L)															
Antimony	86,000	NA	NA	-	-	-	<5	<5	<5	-	-	-	-	-	-
Arsenic	4	NA	NA	<4	<4	10	<4	<4	<4	-	-	-	-	-	-
Barium	2,200	NA	NA	35	109	40	21	714	2	-	-	-	-	-	-
Beryllium	4	NA	NA	-	-	-	<1	<1	<1	-	-	-	-	-	-
Cadmium	6	NA	NA	<1	2	<1	<1	1	<1	-	-	-	-	-	-
Chromium (Total)	NE	NA	NA	<1	<1	<1	12	2	<1	-	-	-	-	-	-
Copper	48	NA	NA	-	-	-	<5	<5	<5	-	-	-	-	-	-
Lead	13	NA	NA	2	2	<1	<1	<1	4	-	-	-	-	-	-
Mercury (7470A)	0.4	NA	NA	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	-	-	-	-	-	-
Nickel	880	NA	NA	-	-	-	<1	7	<1	-	-	-	-	-	-
Selenium	50	NA	NA	<10	<10	<10	<10	<10	<10	-	-	-	-	-	-
Silver	12	NA	NA	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-
Thallium (6020B)	63	NA	NA	-	-	-	<0.5	<0.5	<0.5	-	-	-	-	-	-
Vanadium	270	NA	NA	-	-	-	<2	<2	2	-	-	-	-	-	-
Zinc	123	NA	NA	-	-	-	<4	5	<4	-	-	-	-	-	-
PCBs 8082A (µg/L)															
PCBs (Total)	0.5	NA	NA	-	-	-	ND	ND	ND	-	-	-	-	-	-
SVOCs 8270D (SIM) (µg/L)															
Acenaphthene	150	30,500	50,000	0.53	<0.48	<0.49	<0.49	<0.47	<0.48	-	-	-	-	-	-
Acenaphthylene	0.3	NE	NE	0.39	<0.29	<0.29	<0.29	<0.28	<0.29	-	-	-	-	-	-
Benzo(a)anthracene	0.3	NE	NE	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-
Dioxane, 1,4-	960	NE	NE	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	14	NE	NE	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	-	-	-	-	-	-
Pyrene	110,000	NE	NE	<0.51	<0.48	<0.49	<0.49	<0.47	<0.48	-	-	-	-	-	-
SVOCs 8270D (µg/L)	Varies	Varies	Varies	-	-	-	BRL	BRL	BRL	-	-	-	-	-	-
VOCs 8260C (µg/L)															
Dichloroethene, cis-1,2-	6,200	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0	<1.0
Dioxane, 1,4-	960	NE	NE	-	-	-	-	-	<40	-	-	-	-	-	-
Xylene (Total)	270	21,300	50,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0	<1.0
Xylene, m,p-	NE	NE	NE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0	<1.0

CTDEEP RSRs - Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (February 16, 2021) and CTDEEP Additional Polluting Substances (September 20, 2018)
 CT ETPH - Connecticut Department of Public Health Extractable Total Petroleum Hydrocarbons
 NE - Not established; NA - Not Applicable; "-" - Sample not analyzed;
 BRL - Below Reporting Limit
 <xx indicates compound was not reported above laboratory limits.
 Only parameters reported above reporting limits are summarized above
 Results presented in micrograms per liter (µg/L)
 PCBs - Polychlorinated Biphenyls
 PFAS - Per- and Polyfluorinated Substances
 SVOCs - Semi-Volatile Organic Compounds
 VOCs - Volatile Organic Compounds
 SWPC - Surface Water Protection Criteria

RES GWVC - Residential Groundwater Volatilization Criteria
 I/C GWVC - Industrial/Commercial Groundwater Volatilization Criteria
 Boxed Values indicate exceedances of RES VC
 Bold values indicate exceedances of I/C VC
 Gray shaded values indicate exceedance of SWPC

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GCN92786	4/27/23	675577	Phoenix	CN92786, CN92787, CN92788, CN92790, CN92791, CN92792, CN92793, CN92794, CN92796, CN92797	B-1 (4-5 ft), B-112 (0-2 ft), B-113 (2-4 ft), B-114 (0-2 ft), B-13 (8-10 ft), B-2 (4-5 ft), B-94 (3-5 ft), B-96 (3-5 ft), B-97 (3-5 ft), TB042723L	Soil	Bromoform	Low LCS/LCSD Recovery	Low	70-130	69/65	No	A slightly low bias is possible for subject parameters; however, other QC and RPD values were acceptable. It is not likely that data usability was affected.			
							Bromoform; Dichlorodifluoromethane	Low LCSD Recovery	Low	70-130	69, 40	No				
							Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	30/26, 32/28	No				
							675577H	CN92798	TB042723H	Butylbenzene, n-; Methylene Chloride (Dichloromethane)	High LCS/LCSD Recovery	High	70-130	138, 148	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.
										Dichlorodifluoromethane; Methylene Chloride (Dichloromethane)	High LCS/LCSD RPD	Variability	30	88.1, 35.9	No	
							675680	CN92789, CN92795	B-95 (3-5 ft), B-98 (3-5 ft)	Bromoform; Dichloroethene, trans-1,2-	Low LCS Recovery	Low	70-130	65, 63	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
										Dichloroethane, 1,1-	High LCS/LCSD RPD	Variability	30	40	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.
										Chemical Oxygen Demand; Terphenyl-d14	Low Surrogate Recovery	Low	50-150	38, 33	No (Sur)	Other Target QC data was acceptable; therefore, no significant bias is suspected.
										CT ETPH; Chemical Oxygen Demand	High LCSD Recovery	High	60-120	124, 144	No/(SUR)	The analyte was not reported in the samples; therefore, no significant bias is suspected.
							Chemical Oxygen Demand	High Surrogate Recovery	High	60-120	128	No (Sur)				
675520	CN92790, CN92791, CN92792, CN92793, CN92794, CN92795, CN92796	B-112 (0-2 ft), B-113 (2-4 ft), B-114 (0-2 ft), B-13 (8-10 ft), B-96 (3-5 ft), B-97 (3-5 ft), B-98 (3-5 ft)	Chemical Oxygen Demand	High MS Recovery	High	50-150	156	No (Sur)								

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GCN93805	4/28/23	675889H	Phoenix	CN93825	TB042823H	Soil	Bromomethane	Low LCS Recovery	Low	70-130	66	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
							Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	24/25, 22/22	No	
		675706		CN93805, CN93806, CN93807, CN93808, CN93809, CN93810, CN93811, CN93812, CN93813	B-10 (8-10 ft), B-14 (8-10 ft), B-3 (0-2 ft), B-5 (8-10 ft), B-6 (8-10 ft), B-7 (8-10 ft), B-8 (8-10 ft), B-9 (6-8 ft), DUP-1		CT ETPH	High LCSD Recovery	High	60-120	121	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.
								High LCS/LCSD RPD	Variability	30	43.2	No	
		675740		CN93814, CN93815, CN93816, CN93817, CN93818, CN93819, CN93820, CN93821, CN93822, CN93823	B-100 (8-10 ft), B-131 (1-3 ft), B-15 (8-10 ft), B-16 (8-10 ft), B-17 (7-9), B-18 (8-10 ft), B-82 (1-3 ft), B-83 (0.5-2.5 ft), B-93 (1-2.5 ft), B-99 (5-6 ft)		Chemical Oxygen Demand	High LCS Recovery	High	50-150	163	No (Sur)	CT ETPH was not reported in the samples; therefore, no significant bias is suspected
							CT ETPH	High LCS Recovery	High	60-120	128	No	
		675634		CN93805, CN93811, CN93818, CN93819, CN93820, CN93821, CN93822	B-10 (8-10 ft), B-100 (8-10 ft), B-3 (0-2 ft), B-82 (1-3 ft), B-83 (0.5-2.5 ft), B-93 (1-2.5 ft), B-99 (5-6 ft)		Chloroaniline, p- (4-Chloroaniline); Dichlorobenzidine, 3,3-; Nitroaniline, 3-	Low LCS/LCSD Recovery	Low	40-140	15/17, 33/32, 27/30	No	A slightly low bias is possible for the analytes; however, the analytes were not reported in the samples. It is not likely that data usability was affected.
							Benzidine	LCS/LCSD not detected	Variability	40-140	ND/ND	No	
		675901		CN93812	DUP-1		Benzoic acid; Dinitrophenol, 2,4-	Low LCS/LCSD Recovery	Low	30-130	24/20, 18/21	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
							Dinitrotoluene, 2,4-	High LCS/LCSD RPD	Variability	30	30.6	No	
		675751		CN93806, CN93807, CN93809, CN93810, CN93814, CN93815, CN93817	B-15 (8-10 ft), B-16 (8-10 ft), B-18 (8-10 ft), B-5 (8-10 ft), B-6 (8-10 ft), B-8 (8-10 ft), B-9 (6-8 ft)		Naphthalene	Low LCS Recovery	Low	40-140	36	No	The analyte was not reported in the samples; therefore, no significant bias is suspected
								High LCS/LCSD RPD	Variability	30	30.6	No	
							Nitrobenzene-D5	Low Surrogate Recovery	Low	30-130	22	No (Sur)	A slightly low bias is possible for the PAHs; however, target QC was acceptable. It is not likely that data usability was affected.

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GCN94953	5/1/23	675913H	Phoenix	CN94954, CN94967, CN94971	B-19 (13-15 ft), B-91 (3-5 ft), TB050123H	Soil	Acetone; Bromomethane; Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	61/56, 67/67, 25/24, 21/20	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
							Naphthalene	High LCS/LCSD Recovery	High	70-130	139/137	Yes	A slightly high bias is possible for the Napthalene	
				676168H	CN94967	B-91 (3-5 ft)	Soil	Acetone; Bromomethane; Carbon disulfide; Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	59/59, 65/64, 68/69, 24/24, 21/20	No	A slightly low bias is possible for the analytes; however, however, other QC was acceptable. It is not likely that data usability was affected.
								Trichlorobenzene,1,2,4-	High LCS/LCSD Recovery	High	70-130	132	No	The analyte was not reported in the samples; therefore, no significant bias is suspected
				676797H	CN94954	B-19 (13-15 ft)	Soil	Acetone	Low LCSD Recovery	Low	70-130	69	No	A slightly low bias is possible for the analytes; however, however, other QC was acceptable. It is not likely that data usability was affected.
								Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	43/42, 33/32	No	
				676002	CN94956	DUP-2	Soil	CT ETPH; Chemical Oxygen Demand; Terphenyl	High MS/MSD RPD	Variability	30	43, 39, 40	Varies	There may be variability in the reported result for CT ETPH due to matrix interference; however, CT ETPH was reported similar to other samples at the site.
								Chemical Oxygen Demand	Low Surrogate Recovery	Low	50-150	47	No (Sur)	Other Target QC data was acceptable; therefore, no significant bias is suspected.
				676178	CN94953	B-4 (8-10 ft)	Soil	Dichlorobenzidine, 3,3-	Low LCSD Recovery	Low	40-140	38	No	A slightly low bias is possible for the analytes; however, however, other QC was acceptable. It is not likely that data usability was affected.
								Pyridine	Low LCS/LCSD Recovery	Low	40-140	26/26	No	
				676228	CN94966, CN94968, CN94969	B-105 (3-5 ft), B-43 (13-15 ft), DUP-3	Soil	Benzidine	LCS/LCSD not detected	Low	40-140	ND/ND	No	A slightly low bias is possible for the analyte; however, however, other QC was acceptable. It is not likely that data usability was affected.
								Dinitrophenol, 2,4- Nitrophenol, 4-	High LCS/LCSD Recovery	High	30-130	135/149	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.
				676227	CN94956	DUP-2	Soil	Benzo(b)fluoranthene; Fluoranthene	Low MS Recovery	Low	40-140	36, 32	Yes	A low bias for the analytes is possible
								Chloroaniline, p- (4-Chloroaniline); Dichlorobenzidine, 3,3-	Low MSD Recovery	Low	40-140	32, 25	No	A slightly low bias is possible for the analytes; however, the analytes were not reported in the sample and other QC is acceptable. It is not likely that data usability was affected.
				CN94958	CN94958	B-22 (8-10 ft)	Soil	Dichlorobenzidine, 3,3-; Nitroaniline, 3-; Benzo(a)anthracene; Benzo(a)pyrene; Benzo(b)fluoranthene; Chloroaniline, p- (4-Chloroaniline); Chrysene; Dichlorobenzidine, 3,3-; Fluoranthene; Pyrene	High MS/MSD RPD	Variability	30	36.6, 44.2, 37, 34, 60, 32, 44, 46, 72, 67	Varies	There may be variability in the reported results for the analytes.
								Hexachlorocyclopentadiene	MS/MSD not detected	Low	40 - 140	ND, ND	No	A slightly low bias is possible for the analytes; however, however, other QC was acceptable. It is not likely that data usability was affected.
				CN94956	CN94956	DUP-2	Soil	Benzidine	LCS/LCSD not detected	Low	40 - 140	ND	No	Other QC results were acceptable. It is not likely that data usability was affected.
								Naphthalene	High MS/MSD RPD	Variability	30	39	Yes	
				CN94958	CN94958	B-22 (8-10 ft)	Soil	Nitrobenzene-D5	Low Surrogate Recovery	Low	30-130	24	No (Sur)	Target QC data was acceptable; therefore, no significant bias is suspected.
								Nitrobenzene-D5	Low Surrogate Recovery	Low	30-130	18	No (Sur)	

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GCN97567	5/3/23	676594H	Phoenix	CN97664	TB HL	Soil	Bromomethane; Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	68/66, 23/21, 20/19	No	Other QC was within acceptable method criteria; therefore, no significant bias is suspected.
		676858		CN97571	HA-36 (0-0.5 ft)	Soil	BHC, Delta- (δ-Lindane)	Low LCS/LCSD Recovery	Low	40-140	36/36	No	Other QC was within acceptable method criteria; therefore, no significant bias is suspected.
GCN97920	5/4/23	676791H	Phoenix	CN97925, CN97926, CN97927, CN97928	B-44 (10-12 ft), B-44 (3-5 ft), B-45 (6-8 ft), DUP-5	Soil	Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	24/25, 23/28	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
		676799H		CN97930	TB050422H		Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	38/38, 28/29	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
					Acetone		Low LCS/LCSD Recovery	Low	70-130	66/68	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
					Dibromo-3-chloropropane,1,2-		High LCSD Recovery	High	70-130	133	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.	
		676806		CN97920, CN97921, CN97923, CN97924, CN97931, CN97932, CN97933, CN97934	B-30 (13-15 ft), B-34 (10-12 ft), B-42 (8-10 ft), B-49 (10-12 ft), B-50 (10-12 ft), B-51 (10-12 ft), B-52 (8-10 ft), DUP-4		Acrylonitrile; Bromomethane; Carbon disulfide; Chloroethane; Dichloroethane, 1,1-; Methyl Ethyl Ketone (MEK 2-Butanone); Methyl Tert-Butyl Ether (MTBE); Tetrahydrofuran; Vinyl Chloride	Low MS Recovery	Low	70-130	60, 64, 65, 67, 69, 67, 68, 62, 68	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
					Acetone		High MS Recovery	High	70-130	135	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.	
		677057		CN97922, CN97927	B-31 (12-14 ft), B-44 (10-12 ft)		Acetone	High MSD Recovery	High	70-130	155	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.
					Acetone		High MS/MSD RPD	Variability	30	50	No		
		677077		CN97924, CN97925, CN97926, CN97927, CN97928, CN97931, CN97932, CN97933, CN97934, CN97935, CN97936, CN97937, CN97938, CN97939, CN97940	B-107 (0.5-2.5 ft), B-42 (8-10 ft), B-44 (10-12 ft), B-44 (3-5 ft), B-45 (6-8 ft), B-49 (10-12 ft), B-50 (10-12 ft), B-51 (10-12 ft), B-52 (8-10 ft), B-53 (10-12 ft), B-54 (10-12 ft), B-55 (10-12 ft), B-56 (10-12 ft), B-84 (0-2 ft), DUP-5		Chemical Oxygen Demand	Low Surrogate Recovery	Low	50-150	48	No (Sur)	ETPH was reported in the samples. A slightly low bias is possible for the ETPH; however, other target QC was acceptable.
					Chloroaniline, p- (4-Chloroaniline); Dichlorobenzene, 1,3-(m-DCB)		Low LCS Recovery	Low	40-140	15, 39	No, No		
676950	CN97925, CN97926	B-44 (3-5 ft), DUP-5	Dichlorobenzidine, 3,3-; Nitroaniline, 3-; N-Nitrosodimethylamine; Pyridine	Low LCS/LCSD Recovery	Low	40-140	36/25, 24/11, 33/37, 32/31	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.				
		Aniline; Benzidine	LCS/LCSD not detected	Variability	40-140	ND/ND, ND/ND	No						
		Chloroaniline, p- (4-Chloroaniline);	LCSD not detected	Low	40 - 140	ND	No						
		Dichlorobenzidine, 3,3-; Nitroaniline, 3-	High LCS/LCSD RPD	Variability	30	36.1, 74.3	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.					

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GCN98846	5/5/23		Phoenix			Soil	Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	64/63, 36/38	No	A slightly low bias is possible for the analytes; however, the analytes were not reported in the sample and other QC was acceptable. It is not likely that data usability was affected.	
							Acetone	Low LCS/LCSD Recovery	Low	70-130	68/69	No		
							Bromoform	High LCSD Recovery	High	70-130	131	No		
							Chloroethane; Trichlorofluoromethane	High LCS/LCSD Recovery	High	70-130	133, 136	No		The analytes were not reported in the samples; therefore, no significant bias is suspected.
							Tetrachloro-m-xylene	High LCS/LCSD RPD	Variability	30	31.2	No (Sur)		PCBs were not reported in the samples; therefore, no significant bias is suspected
							Benzoic acid	Low LCS Recovery	Low	30-130	26	No		
							Pyridine	Low LCS Recovery	Low	40-140	39	No		
							Methylphenol, 2-	Low LCS/LCSD Recovery	Low	40-140	30/34	No		
							Aniline; Methylphenol, 2-	Low MSD Recovery	Low	40-140	39, 37	No		A slightly low bias is possible for the analyte; however, other QC was acceptable. It is not likely that data usability was affected.
							Benzoic acid; Dinitro-2-methylphenol, 4,6-; Dinitrophenol, 2,4-	High LCS/LCSD RPD	Variability	30	89.4, 38.8, 65.5	No		The analytes were not reported in the samples; therefore, no significant bias is suspected.
Nitrophenol, 4-	High MS Recovery	High	30-130	139	No									
Methylphenol, 2-	High MS/MSD RPD	Variability	30	49	No									
677184							Benzidine	MS/MSD not detected	Low	40 - 140	ND/ND	No	A slightly low bias is possible for the analyte; however, other QC was acceptable. It is not likely that data usability was affected.	
GCO00632	5/8/23		Phoenix			Soil	Dichloro-2-butene, trans-1,4-	High LCS Recovery	High	70-130	131	No	The analyte was not reported in the sample; therefore, no significant bias is suspected.	
							Bromomethane; Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	50/54, 16/16, 15/15	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
							Dichloro-2-butene, trans-1,4-	High LCS/LCSD Recovery	High	70-130	132/134	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.	
							T, 2,4,5-	High LCS/LCSD RPD	Variability	30	38.4	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.	
							Tetrachloro-m-xylene	High LCS/LCSD RPD	Variability	30	31.1	No (Sur)	PCBs were not reported in the samples; therefore, no significant bias is suspected.	
							BHC, Delta- (δ-Lindane)	Low LCSD Recovery	Low	40-140	30	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
677578							High LCS/LCSD RPD	Variability	30	63.6	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.		
GCO01217	5/9/23		Phoenix			Soil	Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	25/25, 24/42	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
							Trichlorofluoromethane	High LCS/LCSD RPD	Variability	30	54.5	No	The analyte was not reported in the sample; therefore, no significant bias is suspected.	
							Mercury	High MS Recovery	High	75-125	128	Yes	The analyte was reported in the sample; therefore, a slightly high bias is possible for the analyte	
							Dinitrophenol, 2,4-	Low LCS Recovery	Low	30-130	23	No	A slightly low bias is possible for the analytes; however, the analytes was not reported in the sample. It is not likely that data usability was affected.	
							Benzoic acid	Low LCS/LCSD Recovery	Low	30-130	ND/12	No		
							Pyridine	Low LCSD Recovery	Low	40-140	39	No		
677756							Benzidine; Dinitro-2-methylphenol, 4,6-; Dinitrophenol, 2,4-	High LCS/LCSD RPD	Variability	30	42.6, 36.4, 75.7	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.	

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GCO08002	5/17/23		Phoenix	CO08002, CO08003, CO08004, CO08005, CO08006, CO08007, CO08008, CO08009	B-57 (10-12 ft), B-58 (8-10 ft), B-59 (10-12 ft), B-60 (10-12 ft), B-63 (10-12 ft), B-64 (10-12 ft), B-65 (10-12 ft), DUP-7	Soil	Dichloro-2-butene, trans-1,4-	High LCS/LCSD Recovery	High	70-130	131/143	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.
							Methylene Chloride (Dichloromethane)	High MS/MSD Recovery	High	70-130	165/155	No	
				CO08023, CO08024	B-133 (1-3 ft), DUP-9	Dichloro-2-butene, trans-1,4-	High LCSD Recovery	High	70-130	132	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.	
				CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08017, CO08018, CO08019, CO08020, CO08021, CO08022, CO08025	B-101 (8-10 ft), B-102 (8-10 ft), B-115 (1-3 ft), B-116 (1-3 ft), B-117 (0.25-2.25 ft), B-117 (8-10 ft), B-88 (1-3 ft), B-89 (3-5 ft), B-89 (8-10 ft), B-90 (0.5-2.5 ft), B-92 (2-4 ft), B-92 (8-10 ft), DUP-8, TB051723L	Dichloro-2-butene, trans-1,4-; Hexachlorobutadiene; Naphthalene;	Low MSD Recovery	Low	70-130	69, 68, 54,	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
						Trichlorobenzene, 1,2,3-	Low MS/MSD Recovery	Low	70-130	69/47	No		
						Methylene Chloride (Dichloromethane)	High MS/MSD Recovery	High	70-130	140/147	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.	
						Trichlorobenzene, 1,2,3-; Trichlorobenzene,1,2,4-	High MS/MSD RPD	Variability	30	38, 35	Yes		
				CO08026	TB051723H	Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	25/25, 20/20	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
							Low MS/MSD Recovery	Low	70-130	26/25, 21/20	No		
				CO08002, CO08003, CO08004, CO08005, CO08006, CO08007, CO08008, CO08009, CO08010, CO08011, CO08013, CO08014, CO08015	B-57 (10-12 ft), B-58 (8-10 ft), B-59 (10-12 ft), B-60 (10-12 ft), B-63 (10-12 ft), B-64 (10-12 ft), B-65 (10-12 ft), B-88 (1-3 ft), B-89 (3-5 ft), B-89 (8-10 ft), B-90 (0.5-2.5 ft), DUP-7, DUP-8	CT ETPH; Chemical Oxygen Demand; Terphenyl	High MS/MSD RPD	Variability	30	49, 34, 46	No/(SUR)	The analyte was not reported in the samples; therefore, no significant bias is suspected.	
				CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08018	B-101 (8-10 ft), B-102 (8-10 ft), B-88 (1-3 ft), B-89 (3-5 ft), B-89 (8-10 ft), B-90 (0.5-2.5 ft), B-92 (2-4 ft), DUP-8	Chloroaniline, p- (4-Chloroaniline); Nitroaniline, 3-; Pyridine	Low LCS/LCSD Recovery	Low	40-140	26/25, 39/29, 10/18	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
						Benzidine; Dichlorobenzidine, 3,3-	LCS/LCSD not detected	Low	40-140	ND/ND, ND/ND	No		
		Pyridine	High LCS/LCSD RPD	Variability	30	57.1	No	The analyte was not reported in the samples; therefore, no significant bias is suspected.					

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GCO09163	5/18/23	678877H	Phoenix	CO09166, CO09167	B-67 (7-9 ft), B-68 (8-10 ft)	Soil	Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	24/23, 28/30	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
							Acrylonitrile	Low LCS Recovery	Low	70-130	67	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
		679300		CO09163, CO09164, CO09165, CO09168, CO09169, CO09170, CO09171, CO09172, CO09173, CO09175, CO09176, CO09178, CO09179, CO09185	B-61 (10-12 ft), B-62 (10-11 ft), B-66 (9-10 ft), B-69 (8-10 ft), B-70 (8-10 ft), B-71 (8-10 ft), B-72 (8-10 ft), B-73 (8-10 ft), B-74 (8-10 ft), B-76 (8-10 ft), B-77 (10-12 ft), B-79 (11-12 ft), B-80 (10-11 ft), TB-LL		Methylene Chloride (Dichloromethane)	High MS Recovery	High	70-130	131	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.
							Acetone	High MSD Recovery	High	70-130	143	No	
							Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	24/26, 20/21	No	
							679300H	CO09174, CO09177, CO09182, CO09183, CO09184	B-75 (5-7 ft), B-78 (9-10 ft), DUP-10, DUP-11, TB-H	Bromomethane	Low MS Recovery	Low	70-130
		Chloroethane; Trichlorofluoromethane		Low MS/MSD Recovery	Low					70-130	21/25, 16/20	No	
		None		CO09165, CO09167, CO09174, CO09183,	B-66 (9 - 10 ft), B-68 (8 - 10 ft), B-75 (5-7 ft), DUP-11		Toluene-D8	Low Surrogate Recovery	Low	70-130	69; 63; 65; 51	No (Sur)	A slightly low bias is possible for the CT ETPH; however, target QC was acceptable. It is not likely that data usability was affected.
							679786	CO09163, CO09164, CO09165, CO09166, CO09167, CO09168, CO09169, CO09170, CO09171, CO09172, CO09173, CO09174, CO09175, CO09176, CO09177	B-61 (10-12 ft), B-62 (10-11 ft), B-66 (9-10 ft), B-67 (7-9 ft), B-68 (8-10 ft), B-69 (8-10 ft), B-70 (8-10 ft), B-71 (8-10 ft), B-72 (8-10 ft), B-73 (8-10 ft), B-74 (8-10 ft), B-75 (5-7 ft), B-76 (8-10 ft), B-77 (10-12 ft), B-78 (9-10 ft)	CT ETPH	High LCS/LCSD Recovery	High	60-120
		Chemical Oxygen Demand; CT ETPH; Terphenyl-d14		High LCS/LCSD RPD	Variability					30	32.3, 44.4, 42.3	No/(SUR)	CT ETPH was not reported in the samples; therefore, no significant bias is suspected.
		Chemical Oxygen Demand		High LCSD Recovery	High					50-150	163	No (Sur)	
		CT ETPH		High LCSD Recovery	High					60-120	155	No	
		680112		CO09183	DUP-11		Chemical Oxygen Demand; CT ETPH; Terphenyl-d14	High LCS/LCSD RPD	Variability	30	48.9, 38.5, 49.5	No/(SUR)	
							Dinitro-2-methylphenol, 4,6-; Dinitrophenol, 2,4-	Low LCSD Recovery	Low	30-130	29, 18	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
679788	CO09181	B-108 (1-2 ft)	Benzoic acid	LCS/LCSD not detected	Variability	30-130	ND/ND	No					
			Nitroaniline, 2-	High LCS/LCSD Recovery	High	40-140	149/144	No	The analytes were not reported in the sample; therefore, no significant bias is suspected.				
			Dinitro-2-methylphenol, 4,6-; Dinitrophenol, 2,4-	High LCS/LCSD RPD	Variability	30	60.2, 66.7	No					
679496H	CO10275, CO10276, CO10277, CO10284	B-118 (0-2 ft), B-120 (0-2 ft), B-121 (9-10 ft), TB HL	Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	25/25, 20/21	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.				
			Hexachlorobutadiene; Trichlorobenzene,1,2,4-	High LCS Recovery	High	70-130	131, 131	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.				
			Bromomethane; Trichlorofluoromethane	High LCS/LCSD Recovery	High	70-130	138/139, 141/136	No					
			Terphenyl-d14	High Surrogate Recovery	High	50-150	156	No (Sur)	CT ETPH was reported in the sample; a slightly low bias is possible for CT ETPH				
679713	CO10275, CO10276, CO10277	B-118 (0-2 ft), B-120 (0-2 ft), B-121 (9-10 ft)	Pyridine	Low LCSD Recovery	Low	40-140	37	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.				
			Aniline; Benzoic acid	High LCS/LCSD RPD	Variability	30	50.8, 46.4	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.				
None	CO10276	B-120 (0-2 ft)											
680004	CO10282	B-127 (0-2 ft)											

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GCO11308	5/22/23		Phoenix	CO11308, CO11309, CO11310, CO11311, CO11312, CO11313, CO11314, CO11315, CO11316, CO11325	B-135 (0-2 ft), B-143 (0.5-1 ft), B-144 (0.5-1 ft), B-145 (0.5-1 ft), B-146 (0.5-1 ft), HA-3 (0-0.5 ft), HA-4 (0-0.5 ft), HA-6 (0-0.5 ft), HA-8 (0-0.5 ft), TB-LL	Soil	Bromomethane; Trichlorofluoromethane	High LCSD Recovery	High	70-130	131, 138	No	The analytes were not reported in the samples; therefore, no significant bias is suspected.
				CO11324	TB-HL		Chloroethane; Trichlorofluoromethane	Low LCS/LCSD Recovery	Low	70-130	27/26, 22/22	No	The analytes were not reported in the low level Trip Blank (CO11325); therefore, no significant bias is suspected.
				CO11308	B-135 (0-2 ft)		Chemical Oxygen Demand	Low Surrogate Recovery	Low	50-150	39	No (Sur)	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
				CO11309, CO11310, CO11311, CO11312, CO11313, CO11314, CO11315, CO11316, CO11317, CO11318, CO11323	B-143 (0.5-1 ft), B-144 (0.5-1 ft), B-145 (0.5-1 ft), B-146 (0.5-1 ft), DUP-13, HA-11 (0-0.5 ft), HA-13 (0-0.5 ft), HA-3 (0-0.5 ft), HA-4 (0-0.5 ft), HA-6 (0-0.5 ft), HA-8 (0-0.5 ft)		Chemical Oxygen Demand	High LCS/LCSD RPD	Variability	30	38.8	No (Sur)	Other Target QC data was acceptable; therefore, no significant bias is suspected.
				CO11314	HA-4 (0-0.5 ft)		DB, 2,4- Dalapon; Dicamba; Dinoseb; T, 2,4,5-	Low LCSD Recovery	Low	40-140	39	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
23F1433	6/20/23		York Analytical	23F1433-01 (CO32465)	HA-42 (0 - 0.5')	Soil	M8PFOA	High Surrogate Recovery	High	25 - 150	193	No (Sur)	Other Target QC data was acceptable; therefore, no significant bias is suspected.
				23F1433-02 (CO32466)	Field Blank		M7PFUDa; MPFBA; M5PFPeA; d3-N-MeFOSAA; d5-NEtFOSAA	High Surrogate Recovery	High	25 - 150	157, 151, 160, 158, 197	No (Sur)	PFAS was not reported in the sample; therefore, no significant bias is suspected.
GCO71457	8/10/23		Phoenix	CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468	HA-48 (0-0.5), HA-49 (0-0.5), HA-50 (0-0.5), HA-51 (0-0.5), HA-52 (0-0.5), HA-53 (0-0.5), HA-54 (0-0.5), HA-55 (0-0.5), HA-56 (0-0.5), HA-57 (0-0.5), HA-58 (0-0.5), HA-59 (0-0.5)	Soil	CT ETPH	High LCS/LCSD Recovery	High	60-120	130	Yes	Other Target QC data was acceptable; therefore, no significant bias is suspected.
				CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468	HA-48 (0-0.5), HA-49 (0-0.5), HA-50 (0-0.5), HA-51 (0-0.5), HA-52 (0-0.5), HA-53 (0-0.5), HA-54 (0-0.5), HA-55 (0-0.5), HA-56 (0-0.5), HA-57 (0-0.5), HA-58 (0-0.5), HA-59 (0-0.5)		Chemical Oxygen Demand	Low Surrogate Recovery	Low	50-150	36	No (Sur)	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
			CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468	HA-48 (0-0.5), HA-49 (0-0.5), HA-50 (0-0.5), HA-51 (0-0.5), HA-52 (0-0.5), HA-53 (0-0.5), HA-54 (0-0.5), HA-55 (0-0.5), HA-56 (0-0.5), HA-57 (0-0.5), HA-58 (0-0.5), HA-59 (0-0.5)	Acenaphthylene; Fluorobiphenyl, 2-; Naphthalene; Nitrobenzene-D5; Terphenyl-dl4		High LCS/LCSD RPD	Variability	30	30.7, 31.1, 33.6, 33.6, 34.4	No, No, No, No, No	The analytes were not reported in the samples; therefore, no significant bias is suspected.	
			CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468	HA-48 (0-0.5), HA-49 (0-0.5), HA-50 (0-0.5), HA-51 (0-0.5), HA-52 (0-0.5), HA-53 (0-0.5), HA-54 (0-0.5), HA-55 (0-0.5), HA-56 (0-0.5), HA-57 (0-0.5), HA-58 (0-0.5), HA-59 (0-0.5)	Fluorobiphenyl, 2-; Nitrobenzene-D5; Terphenyl-dl4		High Surrogate Recovery	High	30-130	155, 148, 163	No (Sur)	Other Target QC data was acceptable; therefore, no significant bias is suspected.	

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23F0190	6/1/23	BF30509	York Analytical	23F0190-01 (CO18107)	TMW-3		M3PFHxS; M8PFOA; M8PFOS; M9PFNA				156, 154, 157, 159	No (Sur)	
				23F0190-02 (CO18108)	TMW-6		M8PFOA; M8PFOS; M9PFNA				159, 156, 159	No (Sur)	
				23F0190-03 (CO18109)	TMW-15		M3PFHxS; M8PFOA; M8PFOS;				151, 158 152	No (Sur)	
				23F0190-04 (CO18110)	TMW-18		M3PFHxS; M8PFOA; M8PFOS; M9PFNA				201, 178, 202, 190	No (Sur)	PFAS were reported in the samples; there fore, there is a potential High Bias
				23F0190-06 (CO18112)	TMW-23	GW	M3PFHxS; M8PFOA; M8PFOS; M9PFNA	High Surrogate Recovery	High	25-150	165, 175, 178, 179	No (Sur)	
				23F0190-07 (CO18113)	TMW-25		M3PFHxS; M8PFOA; M8PFOS; M9PFNA				165. 184, 175, 183	No (Sur)	
				23F0190-08 (CO18115)	DUP-1		M8PFOA; M9PFNA				159, 151	No (Sur)	
				23F0190-05 (CO18111)	TMW-19		M3PFHxS; M8PFOA; M8PFOS; M9PFNA				161, 171, 166, 166	No (Sur)	PFAS was not reported in the sample; therefore, no significant bias is suspected.
				23F0190-09 (CO18116)	Field Blank		M9PFNA				154	No (Sur)	

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GCO18107	6/1/23	680759	Phoenix	CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113, CO18114	TMW-3, TMW-6, TMW-15, TMW-18, TMW-19, TMW-23, TMW-25, Trip Blank	GW	Acetone	Low LCS Recovery	Low	70-130	69	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
							Methyl Isobutyl Ketone (4-Methyl-2-pentanone)	Low LCS/LCSD Recovery	Low	70-130	65/65	No		
		680403		CO18107, CO18108, CO18109, CO18110, CO18111	TMW-3, TMW-6, TMW-15, TMW-18, TMW-19		Decachlorobiphenyl	High LCS/LCSD RPD	Variability	20	35.6	No (Sur)		
		bis(2-Chloroethoxy)methane; Carbazole					Low LCSD Recovery	Low	40-140	12, 10	No			
		681180		CO18107, CO18108, CO18109, CO18110, CO18111	TMW-3, TMW-6, TMW-15, TMW-18, TMW-19		Aniline	Low LCS/LCSD Recovery	Low	40-140	13/17	No		
							Benzdine; Dichlorobenzidine, 3,3-Aniline;	LCS/LCSD not detected	Variability	40-140	ND/ND, ND/ND	No		
		681180 (SIM)		CO18107, CO18108, CO18109, CO18110, CO18111	TMW-3, TMW-6, TMW-15, TMW-18, TMW-19		bis(2-Chloroethoxy)methane; Carbazole	High LCS/LCSD RPD	Variability	20	148.4, 159.6	No		The analytes were not reported in the samples; therefore, no significant bias is suspected.
							Pyridine	Low LCS Recovery	Low	30-130	26	No		
		681026 (SIM)		CO18112, CO18113	TMW-23, TMW-25		Acenaphthylene	Low LCSD Recovery	Low	30-130	28	No		
							Acenaphthylene	High LCS/LCSD RPD	Variability	20	90.2	No		
			Methylnaphthalene, 2-; Naphthalene	High LCS/LCSD RPD	Variability	20	20.4, 24.7	No						
GCO19489	6/5/23	680987	Phoenix	CO19492, CO19493, CO19494	TMW-20, TMW-24, Trip Blank	GW	Bromomethane	High LCSD Recovery	High	70-130	134	No	The analyte were not reported in the samples; therefore, no significant bias is suspected.	
							681615	CO19492	TMW-20	Aniline; Benzdine; Chlorophenol, 2-; Dichlorobenzidine, 3,3-; Dimethyl phthalate; Dinitro-2-methylphenol, 4,6-; Dinitrophenol, 2,4-; Phenol; Terphenyl-dl4	High LCS/LCSD RPD	Variability		20
		681615 (SIM)		Hexachlorocyclopentadiene	Low LCS Recovery		Low			30-130	26	No		
				Benzo(a)anthracene; Benzo(a)pyrene; Benzo(g,h,i)perylene; Dibenz(a,h)anthracene; Indeno(1,2,3-cd)pyrene; Terphenyl-dl4; Tribromophenol, 2,4,6-	High LCS/LCSD RPD		Variability			20	21.3, 22, 20.9, 23.5, 27.1, 20.7, 35.4	No/(SUR)		

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GCO20484	6/6/23	681702 (SIM)	Phoenix	CO20485, CO20486, CO20488	TMW-7, TMW-8, TMW-12	GW	Carbazole; Diphenylhydrazine, 1,2-	Low LCS Recovery	Low	40-140	14, 20	No	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.	
							Aniline	LCS not detected	Low	40-140	ND	No		
							Aniline	Low LCSD Recovery	Low	40-140	22	No		
							bis(2-Chloroethoxy)methane; Chloroaniline, p- (4-Chloroaniline); Nitroaniline, 3-	Low LCS/LCSD Recovery	Low	40-140	12/22, 24/28, 22/31	No		
							Benzidine; Dichlorobenzidine, 3,3- Benzoic acid,	LCS/LCSD not detected	Variability	40-140	ND/ND, ND/ND	No		
							bis(2-Chloroethoxy)methane; Butyl benzyl phthalate; Carbazole; Diphenylhydrazine, 1,2-; Nitroaniline, 2-; Nitroaniline, 3-	High LCS/LCSD RPD	Variability	20	32.0, 58.8, 31.8, 120, 114.9, 36.3, 24	No		The analytes were not reported in the samples; therefore, no significant bias is suspected
							Acenaphthylene	Low LCS Recovery	Low	30-130	26	No		A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
							Pyridine	Low LCS/LCSD Recovery	Low	30-130	16/19	No		
							Acenaphthylene; Benzo(a)pyrene; Benzo(g,h,i)perylene	High LCS/LCSD RPD	Variability	20	76.2, 28, 20.1	No		The analytes were not reported in the samples; therefore, no significant bias is suspected
							Dichlorobenzidine, 3,3-; Benzidine	LCSD not detected	Low	40-140	ND, ND	No		A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
							Aniline; bis(2-Chloroethoxy)methane; Chloroaniline, p- (4-Chloroaniline); Nitroaniline, 3-	Low LCSD Recovery	Low	40-140	12, 39, 18, 31	No		
							Benzoic acid; bis(2-Chloroethoxy)methane; Carbazole; Chloroaniline, p- (4-Chloroaniline); Nitroaniline, 2-; Nitroaniline, 3-; N-Nitrosodiphenylamine	High LCS/LCSD RPD	Variability	20	130.4, 28.6, 73.2, 46.2, 118.2, 36.5, 97.5, 24.2	No		The analytes were not reported in the samples; therefore, no significant bias is suspected
							Acenaphthylene; Benzo(a)pyrene	High LCS/LCSD RPD	Variability	20	25.2, 29.4	No		
							681883		CO20490, CO20491	MW-2, OW-1				
681883 (SIM)														
681884 (SIM)		CO20484, CO20487, CO20489, CO20492		TMW-2, TMW-10, TMW-16, DUP-2										

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GCO21852	6/7/23	681945	Phoenix	CO21857, CO21858, CO21859	DUP-4, MW-1, TMW-21	GW	Aroclor-1016	High LCS/LCSD RPD	Variability	20	21.6	No	The analyte was not reported in the samples; therefore, no significant bias is suspected
							Decachlorobiphenyl; Tetrachloro-m-xylene	Low Surrogate Recovery	Low	30-150	18, 9	No (Sur)	A slightly low bias is possible for the analytes; however, other QC was acceptable. It is not likely that data usability was affected.
							Aniline; Chloroaniline, p- (4-Chloroaniline)	Low LCS/LCSD Recovery	Low	40-140	23/20, 34/24	No	SVOCs were not detected in the low level batch group 682067(SIM); therefore, it is not likely that data usability was affected.
		Benzidine; Dichlorobenzidine, 3,3-		LCS/LCSD not detected	Variability		40-140	ND/ND, ND/ND	No				
		682067		CO21852, CO21853, CO21855, CO21856, CO21858, CO21859	DUP-4, MW-1, TMW-1, TMW-11, TMW-4, TMW-9		Benzoic acid; Chloroaniline, p- (4-Chloroaniline); Dichlorobenzene, 1,3-(m-DCB); Dichlorobenzene, 1,4- (p-DCB); Dinitrophenol, 2,4-; Hexachloroethane; Phenol; Phenol-d5	High LCS/LCSD RPD	Variability	20	38, 34.5, 20.8, 21.9, 25.9, 24.2, 20.4, 23.2	No/(SUR)	High level SVOCs were not reported in the samples; therefore, no significant bias is suspected.
		682067 (SIM)					Hexachlorocyclopentadiene; Pyridine	Low LCS Recovery	Low	30-130	26, 21	No	A slightly low bias is possible for low level SVOCs; however, low level SVOCs were not reported in the samples. It is not likely that data usability was affected.
							Hexachlorocyclopentadiene; Naphthalene; Pyridine	High LCS/LCSD RPD	Variability	20	29.5, 24.1, 66.7	No	
		682113 (SIM)		CO21854	TMW-5		Methylnaphthalene, 2-	High LCS/LCSD RPD	Variability	20	20.3	No	

GW - Groundwater
 LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 MS - Matrix Spike
 MSD - Matrix Spike Duplicate
 SUR - Surrogate
 Lab Report ID 23F0190 from York Analytical was subcontracted from Phoenix Environmental as part of Phoenix Lab Report ID
 Lab Report ID 23F1433 from York Analytical was subcontracted from Phoenix Environmental as part of Phoenix Lab Report ID

Tighe&Bond

APPENDIX C

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 7.78 4/27/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 16	DATUM NAVD88/NAD83
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1027289	APPROXIMATE Y-LOCATION 831752
PROJECT NAME Brainard Airport	START DATE 4/27/2023	END DATE 4/27/2023	BORING ID B-1/TMW-1
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 5": Brown, TOPSOIL			TOPSOIL	Road Box Concrete
2	0-5	54	0.0	Next 31": Brown, SILT, some fine to medium Sand			SILT	Sand Bentonite Seal
4			0.0	Bottom 24": Brown, Clayey SILT, some fine to medium Sand, wet				Solid PVC Riser
6								Sand
8	5-10	36	0.0	Grey, Clayey Silt, some fine to medium Sand, wet			Clayey SILT	
10			0.0	Top 12": Grey, Clayey SILT, some fine to medium Sand, wet				PVC Screen
12	10-15	36	0.0	Bottom 24": Grey, fine to medium SAND, some Silt			SAND	
				End of Boring at 15 ft BGS				End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 3.00 4/27/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID(PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/27/2023	END DATE 4/27/2023	BORING ID B-2
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID(PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 5": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	50	0.0	Next 24": Brown, SILT, some fine to medium Sand			SILT	
4			0.0	Brown, Clayey SILT, some fine to medium Sand, wet				
6	5-10	54	0.0	Grey, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 9.68 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 19	DATUM NAVD88/NAD83
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1027701	APPROXIMATE Y-LOCATION 832403
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-3/TMW-2
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0				Top 4": Brown, TOPSOIL			TOPSOIL	Road Box
2	0-5	54		Next 16": Brown, fine to coarse SAND, little fine Gravel, trace Silt			SAND	Concrete
4				Next 28": Brown, fine to medium SAND, some Silt			Clayey SILT	Bentonite Seal
6				Bottom 8": Brown, Clayey SILT, some fine to medium Sand, wet			SAND	Solid PVC Riser
8	5-10	60		Top 16": Brown, fine to medium SAND, some Silt, wet			SILT	Sand
10				Next 32": Brown, SILT, some fine to medium Sand, wet			Clayey SILT	PVC Screen
12				Bottom 12": Brown, Clayey SILT, some fine to medium Sand, wet			SAND	
14	10-15	60		Top 43": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
				Bottom 17": Brown, fine to medium SAND, some Silt			SAND	End Cap
				End of Boring at 15 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	Road Box Concrete
2	0-5	44	0.0	Next 30": Brown, fine to medium SAND, some Silt				Sand
4			0.0	Bottom 10": Brown, fine to coarse SAND, little Silt				Bentonite Seal
6								Solid PVC Riser
8	5-10	36	0.0	Brown, fine to coarse SAND, little Silt, wet at 8			SAND	Sand
10								PVC Screen
12	10-15	48	0.0	Brown, fine to coarse SAND, little Silt, wet				
14								
				End of Boring at 15 ft BGS				End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-5
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
			0.0	Next 10": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt, little Asphalt			SAND and GRAVEL	
2	0-5	51	0.0	Next 27": Light brown, fine to medium SAND, some Silt			SAND	
4			0.0	Bottom 10": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
6								
8	5-10		0.0	Brown, SILT, some fine to medium Sand, wet			SILT	
10				End of Boring at 10 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	28	0.0	Top 10": Dark Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt, trace Brick, trace Asphalt			SAND and GRAVEL	No Well Installed
2			0.0	Bottom 18": Brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Brick, wet				
4	5-10	20	0.0	Top 6": Brown, fine to coarse SAND, some fine to coarse Gravel, little Silt, trace Brick, trace Asphalt, wet				
6			0.0	Next 10": White, Crushed CONCRETE			Crushed CONCRETE	
			0.0	Bottom 4": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt, wet			SAND and GRAVEL	
				End of Boring at 10 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	32	0.0	Next 26": Brown, fine to coarse GRAVEL, some fine to coarse Sand, trace Silt, trace Brick			GRAVEL	
4			0.0	Bottom 3": Brown, SILT, some fine to medium Sand			SILT	
6			0.0	Top 27": Brown, SILT, some fine to medium Sand, wet				
8	5-10	40	0.0	Bottom 13": Brown, fine to medium SAND, some Silt, wet			SAND	
				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-8
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	44	0.0	Top 12": Black, ASPHALT			ASPHALT	No Well Installed
2			0.0	Next 20": Brown, fine to medium SAND, some Silt			SAND	
4			0.0	Bottom 12": Brown, SILT, some fine to medium Sand, wet			SILT	
6	5-10	48	0.0	Top 40": Brown, Clayey SILT, some Silt, wet			Clayey SILT	
8			0.0	Bottom 8": Brown, fine to medium SAND, some Silt, wet			SAND	
				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 9.00 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-9
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
2	0-5	45	0.0	Next 25": Grey, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
4			0.0	Bottom 14": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Asphalt, trace Silt				
6			0.0	Top 18": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt			GRAVEL	
	5-10	24	0.0	Bottom 6": Brown, fine to coarse GRAVEL, little fine to coarse Sand, trace Silt, wet at 9				
				End of Boring at 10 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	60	0.0	Bottom 57": Brown, fine to medium SAND, some Silt			SAND	
6			0.0	Top 18": Brown, fine to medium SAND, some Silt, wet				
8	5-10	56	0.0	Bottom 38": Brown, Clayey SILT, some Silt, wet			Clayey SILT	
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.73 4/27/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 18	DATUM NAVD88/NAD83
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1027516	APPROXIMATE Y-LOCATION 832160
PROJECT NAME Brainard Airport	START DATE 4/27/2023	END DATE 4/27/2023	BORING ID B-13/TMW-4
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	39	0-0.25	Top 6": Black, ASPHALT			ASPHALT	Road Box
			0.25-0.5	Next 8": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	Concrete
2		0.5-0.75	Bottom 25": Light brown, fine to medium SAND, some Silt	SAND			Sand	
4		0.75-1.0		SAND			Bentonite Seal	
6	5-10	24	1.0-1.25	Brown, SILT, some fine to medium Sand, wet at 6.5			SILT	Solid PVC Riser
8			1.25-1.5				SILT	Sand
10	10-15	30	1.5-1.75	Top 16": Brown, fine to medium, SAND little Silt, wet			SAND	PVC Screen
12			1.75-2.0	Bottom 14": Brown, fine to coarse SAND and fine GRAVEL, trace Silt, wet			SAND and GRAVEL	
			2.0-2.25	End of Boring at 15 ft BGS				End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5.00 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-14
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 12": Black, ASPHALT			ASPHALT	No Well Installed
2	0-5	46	0.0	Bottom 24": Brown, fine to medium SAND, some Silt			SAND	
6	5-10	16	0.0	Brown, SILT, some fine to medium Sand, wet			SILT	
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 8.00 4/28/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 4/28/2023	BORING ID B-15
PROJECT LOCATION 20 Lindberg Drive	START DATE 4/28/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	42	0	Top 9": Black, ASPHALT			ASPHALT	No Well Installed
2			Next 6": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Brick, trace Silt	SAND and GRAVEL				
4			Bottom 27": Brown, fine to medium SAND, some Silt	SAND				
6	5-10	42	6	Light brown, fine to coarse SAND, trace Silt, wet at 8				
8								
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 8.00 4/28/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 4/28/2023	BORING ID B-16
PROJECT LOCATION 20 Lindberg Drive	START DATE 4/28/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 12": Black, ASPHALT			ASPHALT	No Well Installed
2	0-5	40	0.0	Bottom 28": Brown, fine to medium SAND, some Silt			SAND	
6			0.0	Top 12": Reddish brown, Crushed ROCK, some fine to coarse Sand, little fine to coarse Gravel, trace Silt			Crushed ROCK	
8	5-10	38	0.0	Bottom 26": Brown, fine to medium SAND, some Silt, wet at 8			SAND	
				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 7.00 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-17
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 8": Black, ASPHALT			ASPHALT	No Well Installed
2	0-5	48	0.0	Bottom 40": Brown, fine to medium SAND, some Silt			SAND	
4								
6								
8	5-10	39	0.0	Brown, fine to medium SAND, some Silt, wet at 7				
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-18
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	50	0.0	Bottom 46": Light brown, fine to medium SAND, some Silt			SAND	
6			0.0	Top 38": Light brown, fine to medium SAND, some Silt				
8	5-10	52	0.0	Bottom 14": Brown, SILT, some fine to medium Sand, wet			SILT	
				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 11.03 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 20	DATUM NAVD88/NAD83
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1026989	APPROXIMATE Y-LOCATION 832148
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-19/TMW-5
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	Road Box Concrete
2	0-5	40	0.0	Bottom 36": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Brick, trace Silt			SAND and GRAVEL	Sand Bentonite Seal
4								Solid PVC Riser
6	5-10	22	0.0	Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, wet at 9				Sand PVC Screen
8								
10								
12	10-15	36	0.0	Top 22": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, wet			Clayey SILT	
			0.0	Bottom 12": Grey, Clayey SILT, some fine to medium Sand, gasoline odor, wet				
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 9.00 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-20
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 16": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	44	0.0	Bottom 24": Reddish brown, fine to coarse GRAVEL, some fine to coarse Sand, little Brick, trace Silt				
4								
6							GRAVEL	
8	5-10	44	0.0	Reddish brown, fine to coarse GRAVEL, some fine to coarse Sand, little Brick, trace Silt, wet at 9'				
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 9.00 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-21
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	42	0.0	Next 24": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt			SAND and GRAVEL	
4			0.0	Bottom 20": Reddish brown, fine to coarse GRAVEL, some fine to coarse Sand, little Brick, trace Silt				
6								
8	5-10	40	0.0	Reddish brown, fine to coarse GRAVEL, some fine to coarse Sand, little Brick, trace Silt, wet at 9'			GRAVEL	
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 8.00 5/1/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/1/2023	BORING ID B-22
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/1/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	32	0.0	Bottom 29": Brown, fine to medium SAND, some Silt			SAND	
6			0.0	Top 22": Brown, SILT, some fine to medium Sand			SILT	
8	5-10	60	0.0	Bottom 38": Brown, Clayey SILT, some fine to medium Sand, wet at 8'			Clayey SILT	
10				End of Boring at 10 ft BGS				

NOTES:

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RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.00 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-23
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	41	0.0	Bottom 35": Brown, fine to medium SAND, some Silt			SAND	
6			0.0	Top 30": Brown, fine to medium SAND, some Silt, moist				
8	5-10	60	0.0	Bottom 30": Brown, Clayey SILT, some fine to medium Sand, moist, wet at 8			Clayey SILT	
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL		ROCK CORE COMPLETED	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE	DTW MEASURING LOCATION	FIELD TEST TYPE
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE	APPROX. GROUND ELEVATION (ft)	DATUM
FOREMAN	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION	APPROXIMATE Y-LOCATION
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-24 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive	START DATE	END DATE	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft)	ENDING DEPTH (ft)	TIGHE & BOND REP

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								
8								
10								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-25
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	46	0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 12": Grey, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, trace Asphalt, trace Brick			SAND and GRAVEL	
2			0.0	Next 18": Brown, fine to medium SAND, some Silt			SAND	
4			0.0	Bottom 10": Reddish brown, fine to medium SAND, trace Silt, trace fine Gravel				
6	5-10	34	0.0	Top 24": Reddish brown, fine to medium SAND, trace Silt, trace fine Gravel, wet at 6'			SILT	
8			0.0	Bottom 10": Brown, SILT, some fine to medium Sand, wet				
				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.00 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-26
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 12	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 8": Tan, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	46	0.0	Bottom 34": Reddish brown, fine to medium SAND, little Silt, little fine Gravel, trace coarse Sand			SAND	
4								
6								
8	5-10	48	0.0	Reddish brown, fine to medium SAND, little Silt, little fine Gravel, trace coarse Sand, wet at 8'				
10	10-11.5	18	0.0	Top 12": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
			0.0	Bottom 6": White, CONCRETE			CONCRETE	
12				End of Boring at 11.5 ft BGS				

NOTES:

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RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.25 5/1/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/1/2023	BORING ID B-27
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/1/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 5": Black, APSHALT			ASPHALT	No Well Installed
			0.0	Next 8": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	39	0.0	Bottom 26": Brown, fine to medium SAND, some Silt			SAND	
4								
6			0.0	Top 16": Brown, fine to medium SAND, some silt, trace Asphalt at 6.25				
8	5-10	60	0.0	Bottom 44": Brown, SILT, some fine to medium Sand, wet			SILT	
10								
12	10-15	60	0.0	Brown, fine to medium SAND, some Silt, wet			SAND	
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 3.00 5/1/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/1/2023	BORING ID B-28
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/1/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 6": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	41	0.0	Bottom 29": Brown, fine to medium SAND, some Silt, wet at 3'			SAND	
4								
6			0.0	Top 12": Brown, fine to medium SAND, some Silt, wet				
8	5-10	60	0.0	Bottom 48": Brown, SILT, some fine to medium Sand, wet			SILT	
10			0.0	Top 12": Brown, SILT, some fine to medium Sand, wet				
12	10-15	60	0.0	Bottom 48": Brown, fine to medium SAND, some Silt, wet			SAND	
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-29
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	42	0.0	Next 27": Brown, fine to coarse SAND, little fine to coarse Gravel, little Silt			SAND	
4			0.0	Bottom 12": Brown, SILT, some fine to medium Sand, wet at 4'				
6							SILT	
8	5-10	46	0.0	Brown, SILT, some fine to medium Sand, wet				
10				End of Boring at 10 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction	
0			0.0	Top 4": Black, ASPHALT			ASPHALT	No Well Installed	
			0.0	Next 10": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL		
2	0-5	42	0.0	Bottom 28": Reddish brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Asphalt at 3'					
			0.0						
4			0.0						
6	5-10	48	0.0	Reddish brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Asphalt, wet at 7			SAND		
					0.0				
8					0.0				
10		0.0							
12	10-15	60	0.0	Top 24": Reddish brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt, trace Asphalt, wet					
					0.7	Next 9": Grey, SILT, some fine to medium Sand, wet			
14				0.7	Next 3": White, Crushed CONCRETE				SILT
				Bottom 24": Grey, fine to medium SAND, some Silt, wet		Crushed CONCRETE			
				End of Boring at 15 ft BGS			SAND		

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 12": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	50	0.0	Next 16": Grey, fine to medium SAND some Silt			SAND	
4			0.0	Bottom 18": Grey, SILT, some fine to medium Sand, wet at 4.5			SILT	
6								
8	5-10	0	0.0	No Recovery			NO RECOVERY	
10								
12	10-15	60	0.0	Grey, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 5.00 5/5/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-32	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/5/2023	END DATE 5/5/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 10": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	40	0.0	Next 23": Reddish brown, fine to coarse SAND and fine GRAVEL, trace Silt			SAND and GRAVEL	
4			0.0	Bottom 7": Brown, fine to coarse SAND and ASPHALT, little Silt			SAND and ASPHALT	
6								
8	5-10	30	0.0	Reddish brown, fine to coarse SAND, little Silt, wet			SAND	
10			0.0	Top 12": Reddish brown, fine to coarse SAND, little Silt, wet				
12	10-15	60	0.0	Bottom 48": Grey, Clayey SILT, some fine to medium Sand			Clayey SILT	
14				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-33
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Brown, TOPSOIL			 TOPSOIL	No Well Installed
2	0-5	52	0.0	Bottom 48": Brown, fine to medium SAND, some Silt, wet at 4			 SAND	
4								
6	5-10	0	0.0	No Recovery			 NO RECOVERY	
8								
10								
12	10-15	60	0.0	Brown, Clayey SILT, some fine to medium Sand, wet			 Clayey SILT	
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.50 5/4/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/4/2023	END DATE 5/4/2023	BORING ID B-34
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction	
0			0.0	Top 4": Black, ASPHALT			ASPHALT	No Well Installed	
			0.0	Next 8": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL		
2	0-5	48	0.0	Next 28": Grey, fine to medium SAND, some Silt			SAND		
4			0.0	Bottom 8": Grey, SILT, some fine to medium Sand, wet			SILT		
6			0.0	Top 12": Grey, fine to medium Sand, some Silt, wet			SAND		
8	5-10	60	0.0	Bottom 48": Grey, SILT, some fine to medium Sand, wet			SILT		
10									
12	10-15	60	0.0	Grey, SILT, some fine to medium Sand, wet					
14									
				End of Boring at 15 ft BGS					

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-35
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	49	0.0	Next 42": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, trace Brick, wet at 4			SAND and GRAVEL	
4			0.0		Bottom 4": White, CONCRETE		CONCRETE	
6	5-10	12	0.0	Top 6": White, CONCRETE Bottom 6": Grey, fine to coarse GRAVEL, some fine to coarse SAND, trace Silt		GRAVEL		
8			0.0					
10			12.0					
12			56.1					
12	10-15	60	363.0	Top 24": Reddish brown, fine to coarse SAND and fine GRAVEL, trace Silt, wet, petro odor		SAND and GRAVEL		
12			459.0					
14			501.6	Next 12": Grey, Clayey SILT, some fine to medium Sand, petro odor		Clayey SILT		
			16.0	Bottom 24": Grey, fine to coarse GRAVEL, little fine to medium Sand, little Silt, wet		GRAVEL		
				End of Boring at 15 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	44	0.0	Bottom 40": Brown, fine to medium SAND, some Silt, trace fine Gravel, wet at 4'			SAND	
4								
6			0.0	Top 12": Brown, fine to medium SAND, some Silt, wet				
8	5-10	60	0.0	Bottom 48": Brown, Clayey Silt, some fine to medium Sand, wet			Clayey SILT	
10			0.0	Top 24": Brown, Clayey Silt, some fine to medium Sand, wet				
12	10-15	60	0.0	Bottom 30": Brown, fine to coarse SAND, some Silt, wet			SAND	
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-37
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
			0.0	Next 15": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Asphalt, trace Silt			SAND and GRAVEL	
2	0-5	40	0.0	Bottom 21": Brown, fine to medium SAND, some Silt, wet at 4'				
4								
6							SAND	
8	5-10	24	0.0	Brown, fine to medium SAND, some Silt, wet				
10								
12	10-15	60	0.0	Top 48": Brown, Clayey Silt, some fine to medium Sand, wet			Clayey SILT	
14			0.0	Bottom 12": Grey, fine to medium SAND, some Silt, wet			SAND	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-38
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	48	0.0	Bottom 44": Brown, fine to medium SAND, some Silt, wet at 4			SAND	
4								
6	5-10	8	0.0	Brown, fine to medium SAND, some Silt, wet				
8								
10	10-15	60	0.0	Brown, fine to medium SAND, some Silt, wet				
12								
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-39
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	46	0.0	Bottom 42": Brown, fine to medium SAND, some Silt, wet at 4			SAND	
4								
6			0.0	Top 12": Brown, fine to medium SAND, some Silt				
8	5-10	60	0.0	Bottom 48": Brown, Clayey Silt, some fine to medium Sand, wet			Clayey SILT	
10								
12	10-15	60	0.0	Top 48": Brown, Clayey Silt, some fine to medium Sand, wet				
14			0.0	Bottom 12": Grey, fine to medium SAND, some Silt, wet			SAND	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5.00 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-40
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction		
0	0-5	55	0.1	Top 6": Brown, TOPSOIL			TOPSOIL	No Well Installed		
2			1.3	Next 12": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt			SAND and GRAVEL			
4			1.6	Bottom 38": Grey, fine to medium SAND, some Silt, petro odor			SAND			
6	1.9									
8	0.0	Top 24": Grey, fine to medium SAND, some Silt, wet, petro odor								
10	12.1									
12	0.0	Bottom 36": Grey, Clayey SILT, some fine to medium Sand, wet, petro odor	Clayey SILT							
14	0.0									
				End of Boring at 15 ft BGS						

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.00 5/5/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/5/2023	BORING ID B-41
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/5/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	54	0.0 1.7	Next 28": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt, trace Brick, trace Asphalt			SAND and GRAVEL	
4			4.9	Bottom 22": Grey, fine to medium SAND, some Silt, petro odor				
6	5-10	50	30.7 150.5 22.9	Grey, fine to medium SAND, some Silt, wet at 6, petro odor			SAND	
8			0.5					
10			201.5	Top 12": Grey, fine to medium SAND, some Silt, wet, petro odor				
12	10-15	60	2.6 1.1 1.3	Bottom 48": Grey, Clayey SILT, some fine to medium Sand, wet, petro odor			Clayey SILT	
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/4/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/4/2023	END DATE 5/4/2023	BORING ID B-42
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt				No Well Installed
2	0-5	42	0.0	Bottom 36": Brown, fine to medium SAND, some Silt				
4								
6							SAND	
8	5-10	42	0.0	Brown, fine to medium SAND, some Silt, wet at 6				
10								
12								
12	10-15	42	0.0	Top 16": Grey, SILT, some fine to medium Sand, wet				
14								
				Bottom 26": Grey, Clayey SILT, some fine to medium Sand				
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.91 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 18	DATUM NAVD88/NAD83
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1027064	APPROXIMATE Y-LOCATION 832055
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-43/TMW-6
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 5": Brown, TOPSOIL			TOPSOIL	Road Box Concrete
2	0-5	52	0.0	Next 40": Brown, fine to coarse SAND, little Silt, trace fine Gravel			SAND	Sand Bentonite Seal
4			0.0	Next 5": Reddish brown, Crushed ROCK			Crushed ROCK	Solid PVC Riser
			0.0	Bottom 2": Brown, fine to medium SAND, some Silt, moist			SAND	
6			0.0	Top 20": Brown, fine to medium SAND, some Silt, moated at 6', moist			SAND	Sand
8	5-10	47	0.0	Bottom 27": Brown, SILT, some fine to medium Sand, wet			SAND	PVC Screen
							SILT	
12	10-15	40	0.0	Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt wet, petro odor at 14'			SAND	
14								End Cap
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 7.00 5/4/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/4/2023	BORING ID B-44
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/4/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			1.1	Top 3": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	39	100.6 396.5	Bottom 36": Grey, fine to medium SAND, some Silt, petro odor			SAND	
4			467.3					
6	5-10	6	19.7	Grey, fine to medium SAND, some Silt, petro odor, wet at 7'				
8								
10								
12	10-15	60	0.8 1.3 0.0 0.0	Grey, Clayey SILT, some fine to medium Sand, wet, petro odor		Clayey SILT		
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.00 5/4/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/4/2023	BORING ID B-45
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/4/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction	
0	0-5	31	1.3	Top 5": Brown, TOPSOIL Next 10": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt, trace Asphalt Bottom 16": Grey, fine to medium SAND, some Silt, petro odor			TOPSOIL	No Well Installed	
2			0.7				SAND and GRAVEL		
4			1.3				SAND		
6			1.4				SAND		
6	5-10	60	1.8	Top 48": Grey, fine to medium SAND, some Silt, petro odor, wet at 6 Bottom 12": White, Crushed CONCRETE, trace Brick			SAND		
8			66.5						
10			50.1						
12			1.1						
12	10-15	60	0.7	Top 36": Grey, SILT, some fine to medium Sand, wet Bottom 24": Grey, Clayey SILT, some fine to medium Sand			Crushed CONCRETE		
14			0.6				SILT		
			0.7				SILT		
			0.0				Clayey SILT		
End of Boring at 15 ft BGS									

NOTES:

RIG MAKE/MODEL		ROCK CORE COMPLETED		CHECKED BY Jill Libby	
WEATHER		DEPTH TO WATER (ft) AND DATE		FIELD TEST TYPE	
DRILLING COMPANY Cisco Geotechnical		SAMPLER TYPE		APPROX. GROUND ELEVATION (ft)	
FOREMAN		SAMPLER ID & OD (in) ID:1.5" OD:2.25"		DATUM	
PROJECT NAME Brainard Airport		CLIENT BFJ Planning		BORING ID B-46 to B-48 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive		START DATE		END DATE	
CITY, STATE Hartford, Connecticut		STARTING DEPTH (ft)		ENDING DEPTH (ft)	
				PROJECT NUMBER 12-5182-001	
				TIGHE & BOND REP	

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								
8								
10								
12								
14								
16								

NOTES:

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RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/4/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/4/2023	END DATE 5/4/2023	BORING ID B-49
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 10": White, CONCRETE			CONCRETE	No Well Installed
			0.0	Next 5": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	26	0.0	Bottom 11": Brown, fine to medium SAND, some Silt			SAND	
4								
6			0.0	Top 12" :Brown, fine to medium SAND, some Silt				
8	5-10	60	0.0	Next 36": Brown, Clayey SILT, some Silt, wet			Clayey SILT	
10			0.0	Bottom 12": Brown, fine to medium SAND, some Silt, wet			SAND	
12	10-15	60	0.0	Top 36": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
14			0.0	Bottom 24":Brown, fine to medium SAND, some Silt, wet			SAND	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 5/4/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-50	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/4/2023	END DATE 5/4/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": White, CONCRETE			CONCRETE	No Well Installed
			0.0	Next 10": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	40	0.0	Bottom 24": Brown, fine to medium SAND, some Silt, wet at 4'			SAND	
4								
6								
8	5-10	50	0.0	Brown, SILT, some fine to medium Sand, wet			SILT	
10								
12	10-15	60	0.0	Top 36": Brown, SILT, some fine to medium Sand, wet				
14			0.0	Bottom 24": Brown, fine to medium SAND, some Silt, wet			SAND	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DEPTH TO WATER (ft) AND DATE 6.00 5/4/2023	APPROX. GROUND ELEVATION (ft) "---"	DATUM
SAMPLER TYPE Macro Core	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
SAMPLER ID & OD (in) ID:1.5" OD:2.25"	CLIENT BFJ Planning	BORING ID B-51
PROJECT NAME Brainard Airport	START DATE 5/4/2023	END DATE 5/4/2023
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15
CITY, STATE Hartford, Connecticut	TIGHE & BOND REP C. Watts	PROJECT NUMBER 12-5182-001

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 8": White, CONCRETE			Crushed CONCRETE SAND and GRAVEL	No Well Installed
			0.0	Next 8": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt				
2	0-5	32	0.0	Bottom 16": Brown, fine to medium SAND, some Silt				
4								
6			0.0	Top 12": Brown, fine to medium SAND, some Silt			SAND	
8	5-10	60	0.0	Bottom 48": Brown, SILT, some fine to medium Sand, wet				
10								
12	10-15	60	0.0	Brown, SILT, some fine to medium Sand, wet			SILT	
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.50 5/4/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-52	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/4/2023	END DATE 5/4/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 7": White, Crushed CONCRETE			Crushed CONCRETE SAND and GRAVEL	No Well Installed
			0.0	Next 7": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt				
2	0-5	37	0.0	Bottom 23": Brown, fine to medium SAND, some Silt, wet at 4			SAND	
4			0.0					
6			0.0	Top 12": Brown, fine to medium SAND, some Silt, wet				
8	5-10	55	0.0	Next 36": Brown, SILT, some fine to medium Sand			SILT	
10			0.0	Bottom 7": Brown, fine to medium SAND, some Silt, wet			SAND	
12	10-15	60	0.0	Brown, SILT, some fine to medium Sand, wet			SILT	
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.50 5/4/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/4/2023	BORING ID B-53
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/4/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": White, CONCRETE			CONCRETE	No Well Installed
			0.0	Next 6": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	32	0.0	Bottom 20": Brown, fine to medium SAND, some Silt			SAND	
4								
6			0.0	Top 18": Brown, fine to medium SAND, some Silt				
8	5-10	60	0.0	Next 30": Brown, SILT, some fine to medium Sand, wet			SILT	
10			0.0	Bottom 12": Brown, fine to medium SAND, some Silt, wet			SAND	
12	10-15	60	0.0	Top 36": Brown, SILT, some fine to medium Sand			SILT	
14			0.0	Bottom 24": Brown, fine to medium SAND, some Silt			SAND	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DEPTH TO WATER (ft) AND DATE 5.00 5/4/2023	APPROX. GROUND ELEVATION (ft) "---"	DATUM
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROXIMATE X-LOCATION "---"
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-54
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/4/2023	END DATE 5/4/2023
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15
		PROJECT NUMBER 12-5182-001
		TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction	
0			0.0	Top 6": White, Crushed CONCRETE			Crushed CONCRETE SAND and GRAVEL	No Well Installed	
			0.0	Next 6": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, trace Brick					
2	0-5	24	0.0	Bottom 12": Brown, fine to medium SAND, some Silt					
6			0.0	Top 9": Brown, fine to medium SAND, some Silt, wet			SAND		
			0.0	Bottom 23": Brown, SILT, some Silt, wet					
8	5-10	32							
12	10-15	60	0.0	Brown, SILT, some Silt, wet			SILT		
14									
				End of Boring at 15 ft BGS					

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5.00 5/4/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/4/2023	END DATE 5/4/2023	BORING ID B-55
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 9": White, CONCRETE			CONCRETE	No Well Installed
			0.0	Next 7": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	42	0.0	Bottom 26": Brown, fine to medium SAND, some Silt			SAND	
4								
6			0.0	Top 24": Brown, SILT, some fine to medium Sand, wet			SILT	
8	5-10	48	0.0	Bottom 24": Brown, fine to medium Sand, some Silt			SAND	
10								
12	10-15	60	0.0	Top 30": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
14			0.0	Bottom 30": Brown, fine to medium SAND, some Silt			SAND	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.00 5/4/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/4/2023	BORING ID B-56
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/4/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": White, Crushed CONCRETE			Crushed CONCRETE SAND and GRAVEL	No Well Installed
			0.0	Next 6": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt				
2	0-5	32	0.0	Bottom 20": Brown, fine to medium SAND, some Silt			SAND	
4								
6							SAND	
8	5-10	60	0.0	Brown, fine to medium SAND, some Silt, wet at 6'				
10							SILT	
12	10-15	60	0.0	Top 36": Brown, SILT, some fine to medium Sand, wet				
14			0.0	Bottom 24": Brown, Clayey SILT, some fine to medium Sand			Clayey SILT	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 9.37 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 16	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1027199	APPROXIMATE Y-LOCATION 830473
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-57/TMW-7
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Black, ASPHALT			ASPHALT	Road Box
			0.0	Next 18": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt			SAND and GRAVEL	Concrete
2	0-5	48	0.0	Next 6": Grey, Crushed ROCK, little			Crushed ROCK	Sand
			0.0	Bottom 20": Grey, SILT, some fine to medium Sand				Bentonite Seal
4							SILT	Solid PVC Riser
6			0.0	Top 12": Grey, SILT, some fine to medium Sand, wet				
	5-10	40	0.0	Bottom 28": Grey, Clayey SILT, some fine to medium Sand, wet				Sand
8								PVC Screen
10							Clayey SILT	
12	10-15	60	0.0	Grey, Clayey SILT, some fine to medium Sand, wet				
14								
				End of Boring at 15 ft BGS				End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 5/17/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/17/2023	BORING ID B-58
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/17/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 16": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Brick, trace Silt			SAND and GRAVEL	
2	0-5	50	0.0	Next 6": White, Crushed ROCK, little ASPHALT			Crushed ROCK	
4			0.0	Bottom 24": Grey, fine to medium SAND, some Silt, wet at 4			SAND	
6								
8	5-10	36	0.0	Grey, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
10								
12	10-15	60	0.0	Grey, Clayey SILT, some fine to medium Sand, wet				
14								
				End of Boring at 15 ft BGS				

NOTES:

DRILLING COMPANY
Cisco Geotechnical

SAMPLER TYPE

Macro Core

APPROX. GROUND ELEVATION (ft)

"--"

DATUM

FOREMAN

John Knapp

SAMPLER ID & OD (in)

ID:1.5" OD:2.25"

APPROXIMATE X-LOCATION

"--"

APPROXIMATE Y-LOCATION

"--"

PROJECT NAME

Brainard Airport

CLIENT

BFJ Planning

BORING ID

B-59

PROJECT LOCATION

20 Lindberg Drive

START DATE

5/17/2023

END DATE

5/17/2023

PROJECT NUMBER

12-5182-001

CITY, STATE

Hartford, Connecticut

STARTING DEPTH (ft)

0

ENDING DEPTH (ft)

15

TIGHE & BOND REP

C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 10": Reddish brown, fine to coarse SAND, little fine Gravel, trace Silt, trace Asphalt			SAND	
			0.0	Next 3": White, crushed ROCK			Crushed ROCK	
2	0-5	42	0.0	Next 18": Grey, SILT, some fine to medium SAND			SILT	
			0.0	Bottom 7": Grey, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
6								
8	5-10	0	0.0	NO RECOVERY			NO RECOVERY	
10								
12	10-15	60	0.0	Top 48": Grey, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
14			0.0	Bottom 12": Grey, fine to medium SAND, some Silt, wet			SAND	
End of Boring at 15 ft BGS								

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Black, ASPHALT			ASPHALT	No Well Installed
2	0-5	24	0.0	Bottom 21": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Asphalt, little Crushed Rock, trace Silt			SAND and GRAVEL	
6								
8	5-10	8	0.0	Brown, SILT, some fine to medium SAND, wet			SILT	
12								
12	10-15	60	0.0	Top 48": Grey, Clayey SILT, some fine to medium SAND, wet			Clayey SILT	
14			0.0	Bottom 12": Grey, fine to medium SAND, some SILT, wet			SAND	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-61
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-4": ASPHALT			ASPHALT	No Well Installed
			0.0	4-14": Red-brown, fine to coarse SAND and GRAVEL			SAND AND GRAVEL	
2	0-5	43	0.0	14-31": Brown, SILT and SAND				
			0.0	31-43": Brown, SAND and SILT				
4								
6								
8	5-10	47	0.0	0-47": Brown, SAND and SILT, wet at 6"			SAND and SILT	
10								
12	10-15	60	0.0	0-54": Brown, SAND and SILT				
14			0.0	54-60": Grey, SAND and SILT				
				End of Boring at 15 ft BGS				

NOTES:

DRILLING COMPANY
Cisco Geotechnical

SAMPLER TYPE
Macro Core

APPROX. GROUND ELEVATION (ft)
15

DATUM
NAVD88/NAD83

FOREMAN
John Knapp

SAMPLER ID & OD (in)
ID:1.5" OD:2.25"

APPROXIMATE X-LOCATION
1026959

APPROXIMATE Y-LOCATION
830290

PROJECT NAME
Brainard Airport

CLIENT
BFJ Planning

BORING ID
B-62/TMW-8

PROJECT LOCATION
20 Lindberg Drive

START DATE
5/18/2023

END DATE
5/18/2023

PROJECT NUMBER
12-5182-001

CITY, STATE
Hartford, Connecticut

STARTING DEPTH (ft)
0

ENDING DEPTH (ft)
15

TIGHE & BOND REP
I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	Road Box
			0.0	6-18": Red-brown, fine to coarse SAND and GRAVEL			SAND and GRAVEL	Sand
2	0-5	44	0.0	18-44": Light brown, fine SAND and SILT				Bentonite Seal
4								Solid PVC Riser
6								
8	5-10	55	0.0	0-55": Light brown, fine SAND and SILT, wet at 12"			SAND and SILT	Sand
10								PVC Screen
12	10-15	60	0.0	0-53": Brown, fine SAND and SILT, wet				
14								
16			0.0	53-60": Brown, fine to medium SAND, little SILT			SAND	End Cap
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 5/17/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/17/2023	BORING ID B-63
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/17/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 10": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	48	0.0	Next 4": White, Crushed CONCRETE			Crushed CONCRETE	
4			0.0	Bottom 28": Light brown, fine to medium SAND, some Silt, wet at 4'				
6								
8	5-10	60	0.0	Light brown, fine to medium SAND, some Silt, wet			SAND	
10								
12	10-15	60	0.0	Light brown, fine to medium SAND, some Silt, wet				
14								
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 5/17/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/17/2023	BORING ID B-64
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/17/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 10": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	50	0.0	Bottom 24": Brown, fine to medium SAND, some Silt, wet at 4'			SAND	
4								
6			0.0	Top 12": Brown, fine to medium SAND, some Silt, wet				
8	5-10	60	0.0	Bottom 48": Brown, SILT, some fine to medium Sand, wet			SILT	
10								
12	10-15	60	0.0	Top 24": Brown, SILT, some fine to medium Sand, wet				
14			0.0	Bottom 36": Grey, CLayey SILT, some fine to medium Sand, wet			Clayey SILT	
End of Boring at 15 ft BGS								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5.00 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-65
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 10": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	54	0.0	Bottom 38": Brown, fine to medium SAND, some Silt			SAND	
4								
6								
8	5-10	60	0.0	Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
10								
12	10-15	60	0.0	Top 30": Grey, Clayey SILT, some fine to medium SAND, wet				
14			0.0	Bottom 30": Grey, fine to medium SAND, some Silt, wet			SAND	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 7.00 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-66
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	47	0.0	0-6": ASPHALT			ASPHALT	No Well Installed
2			0.0	8-20": Brown, fine to medium SAND and GRAVEL			SAND and GRAVEL	
4			0.0	20-27": Reddish brown, fine to medium SAND, little Silt			SAND	
6			0.0					
8	5-10	45	0.0	0-41": Reddish brown, fine to coarse SAND, little Silt, trace Gravel, wet at 26"			SAND	
			0.0					
			0.0					41-45": Grey, SILT, some fine SAND, faint odor
			2.4					
End of Boring at 10 ft BGS								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 7.00 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-67
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	45	0.0	0-6": ASPHALT			ASPHALT	No Well Installed
			0.0	6-14": Grey-brown, fine to coarse SAND and GRAVEL			SAND and GRAVEL	
2			0.0	18-45": Red-brown, fine to coarse SAND, little Silt, trace Gravel			SAND	
4	5-10	50	0.0	0-17": Red-Brown, fine to coarse SAND, little Silt, trace Gravel			SAND	
			0.0					
6			2.8	17-50": Grey, SILT, some Sand, petroleum odor, wet			SILT	
8			4.0					
	0.7	End of Boring at 10 ft BGS						

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 7.00 5/18/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/18/2023	BORING ID B-68
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/18/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	51		0-6": ASPHALT			ASPHALT	No Well Installed
2			0.3	6-18": Grey-brown, fine to coarse SAND and GRAVEL			SAND and GRAVEL	
4			0.4	18-51": Grey, SILT, little fine SAND, moist at 33"			SILT	
			0.0					
6	5-10	31	0.9	0-31": Grey, SILT, little fine SAND, wet at 12", petroleum odor from 12-31"				
			4.9					
			41.7					
			19.1	End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.50 5/18/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/18/2023	BORING ID B-69
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/18/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction			
0	0-5	48	0.0	0-6": ASPHALT			ASPHALT	No Well Installed			
2			0.9	6-48": Grey, SILT, little fine Sand, moist at 27"			SILT				
			5.5								
4	0.5										
	0.0										
6	5-10	53	0.0	0-53": Grey, SILT, little fine Sand, wet at 19"						SILT	
			0.0								
8			0.0								
			0.0								
			0.0								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 7.00 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-70
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy		Well Construction
							ASPHALT	GRAVEL	
0			0.0	0-6": ASPHALT			0	0	No Well Installed
			0.0	6-12": GRAVEL, some fine to coarse Sand					
2	0-5	45	0.0	12-36": Grey, SILT, some fine Sand					
4			0.0	36": Grey, SILT, little fine Sand, moist					
6									
8	5-10	52	0.0	0-52": Grey, SILT, little fine Sand, wet at 24"					

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.50 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-71
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	No Well Installed
			0.0	6-16": Red-brown, fine to coarse SAND, little Gravel			SAND	
2	0-5	47	0.0	16-47": Yellow brown, fine to medium SAND, trace Silt				
4			0.0	0-5": Yellow brown, fine to medium SAND, trace Silt			Clayey SILT	
6	5-10	49	0.0	5-49": Grey, Clayey SILT, wet at 16"				
8								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-72
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	No Well Installed
			0.0	6-18": Red-brown, fine to coarse SAND, some Gravel			SAND	
2	0-5	53	0.0	18-25": Grey, SILT			SILT	
4			0.0	25-53": Light brown, fine to medium SAND, little Silt			SAND	
6			0.0	0-5": Light brown, fine to medium SAND, little Silt				
8	5-10	43	0.0	5-43": Grey, Clayey SILT, wet at 12"			Clayey SILT	

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-73
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	No Well Installed
2	0-5	49	0.0	6-18": Red-brown, fine to coarse SAND, some Gravel			SAND	
4			0.0	18-49": Light brown, fine to medium SAND, trace Silt				
6			0.0	0-8": Light brown, fine to medium SAND, trace Silt			SILT	
8	5-10	41	0.0	8-41": Grey, SILT, little fine Sand, wet at 12"				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-74
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	49	0.0	0-6": ASPHALT			ASPHALT	No Well Installed
			0.0	6-18": Red-brown, fine to coarse SAND, some Gravel			SAND	
2			0.0	18-22": Grey, SILT			SILT	
4	0.0	22-49": Light brown, fine to medium SAND, trace Silt	SAND					
6	5-10	41	0.0	0-6": Light brown, fine to medium SAND, trace Silt			Clayey SILT	
8			0.0	6-41": Grey, Clayey SILT, wet at 10"				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 5.50 5/18/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-75	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/18/2023	END DATE 5/18/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	53	0.0	0-6": ASPHALT			ASPHALT	No Well Installed
2			0.0	6-17": Red-brown, fine to coarse SAND, some Gravel			SAND	
			0.0	17-22": Grey, SILT			SILT	
4			0.0	22-46": Light brown, fine to medium SAND, some Silt			SAND	
	7.1	46-53": Grey, Clayey SILT	Clayey SILT					
6	5-10	35	113.0	0-6": Grey, SILT, odor			SILT	
			117.0	6-35": Grey, Clayey SILT, wet			Clayey SILT	
68.0								
3.3								
8								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.00 5/18/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-76	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/18/2023	END DATE 5/18/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	50	0.0	0-6": ASPHALT			ASPHALT	No Well Installed
			0.0	6-17": Red-brown, fine to coarse SAND, some Gravel			SAND	
2			0.0	17-22": Grey, SILT			SILT	
	0.0	22-48": Light brown, fine to medium SAND, trace Silt	SAND					
4	0.0	48-50": Grey, SILT	SILT					
6	5-10	32	0.0	0-8": Grey, SILT, little fine Sand			SILT	
8			0.0	8-32": Grey, Clayey SILT, wet			Clayey SILT	

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.50 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-77
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	No Well Installed
2	0-5	54	0.0	6-18": Brown, fine to coarse SAND, little Gravel			SAND	
4			0.0	18-54": Grey, SILT, little Sand, moist at 50"			SILT	
6			0.0	0-50": Grey, SILT, little Sand, wet at 18"			SILT	
8	5-10	50	0.0					
10			0.0	0-18": Grey, SILT, little Sand				
12	10-15	46	0.0	18-46": Grey, fine SAND and SILT, wet			SAND and SILT	
14								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 7.00 5/18/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/18/2023	BORING ID B-78
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/18/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	No Well Installed
			0.0	6-18": Brown, fine to coarse SAND, some Gravel			SAND	
2	0-5	45	1.2					
			1.9	18-45": Grey, SILT, little fine Sand				
4			1.3					
			0.0					
6			0.0					
	5-10	60	0.0	0-60": Grey, SILT, little fine Sand, wet at 27", petroleum odor at 9-10"			SILT	
8			0.0					
			0.0					
10			110.0					
			0.0					
12			0.0	0-30": Grey, SILT, little fine Sand, wet , no odor				
	10-15	60	0.0					
			0.0					
14			0.0	30-60": Grey, fine SAND and SILT, wet			SAND and SILT	
			0.0					

NOTES:

DRILLING COMPANY
Cisco Geotechnical

SAMPLER TYPE
Macro Core

APPROX. GROUND ELEVATION (ft)
"---"

DATUM

FOREMAN
John Knapp

SAMPLER ID & OD (in)
ID:1.5" OD:2.25"

APPROXIMATE X-LOCATION
"---"

APPROXIMATE Y-LOCATION
"---"

PROJECT NAME
Brainard Airport

CLIENT
BFJ Planning

BORING ID
B-79

PROJECT LOCATION
20 Lindberg Drive

START DATE
5/18/2023

END DATE
5/18/2023

PROJECT NUMBER
12-5182-001

CITY, STATE
Hartford, Connecticut

STARTING DEPTH (ft)
0

ENDING DEPTH (ft)
15

TIGHE & BOND REP
I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	No Well Installed
			0.0	6-18": Brown, fine to coarse SAND and GRAVEL			SAND and GRAVEL	
2	0-5	45	0.0	18-45": Grey, SILT, little fine Sand				
4								
6							SILT	
8	5-10	48	0.0	0-48": Grey, SILT, little fine Sand, wet at 36"				
10								
12							Clayey SILT	
14	10-15	60	0.0	10-31": Grey, Clayey SILT, wet			SAND and SILT	
			0.0	31-44": Grey, fine SAND and SILT			SAND	
16				44-60": Grey, fine to medium SAND, trace Silt				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.50 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-80
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	No Well Installed
2	0-5	49	0.0	6-35": Red-brown, fine to coarse SAND, some Gravel, trace Cobbles			SAND	
4			0.0	35-49": Grey, SILT, little fine SAND				
6			0.0					
8	5-10	45	0.0	0-45": Grey, SILT, little fine SAND, wet at 20"			SILT	
10			0.0	0-3": Grey, SILT, little fine SAND, wet				
12	10-15	60	0.0	3-44": Grey, Clayey SILT			Clayey SILT	
14			0.0	44-52": Grey, SILT, little fine SAND			SILT	
			0.0	52-60": Grey, fine to medium SAND, trace Silt			SAND	

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.00 5/18/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-81	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/18/2023	END DATE 5/18/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-6": ASPHALT			ASPHALT	No Well Installed
			0.0	6-18": Brown, fine to course SAND and Gravel			SAND and GRAVEL	
2	0-5	49	0.0	18-49": Grey, SILT, little fine Sand			SILT	
4								
6								
	5-10	33	0.0	0-33": Grey, SILT, little fine Sand, wet at 16"			SILT	
8								
10			0.0	0-7": Grey, SILT, little fine Sand, wet				
12	10-15	60	0.0	7-48": Grey, Clayey SILT, wet			Clayey SILT	
14			0.0	48-60": Grey, fine to medium SAND, little Silt			SAND	

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 4/28/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 4/28/2023	BORING ID B-82
PROJECT LOCATION 20 Lindberg Drive	START DATE 4/28/2023	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	48	0.0	Top 9": Black, ASPHALT		0	ASPHALT	No Well Installed
2			0.0	Brown, fine to medium SAND, some Silt			SAND	
4			0.0	Bottom 22": Brown, SILT, some fine to medium Sand, wet at 4'			SILT	
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.50 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-83
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 3": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, trace Brick			SAND and GRAVEL	
2	0-5	46	0.0	Bottom 40": Light brown, fine to medium SAND, some Silt, wet at 4.5			SAND	
4								
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.65 5/4/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 17	DATUM NAVD88/NAD83
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1026919	APPROXIMATE Y-LOCATION 831822
PROJECT NAME Brainard Airport	START DATE 5/4/2023	END DATE 5/4/2023	BORING ID B-84/TMW-9
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Brown, TOPSOIL			TOPSOIL	Road Box Concrete
2	0-5	50	0.0	Bottom 44": Brown, SILT, some fine to medium Sand, some Silt			SAND	Sand Bentonite Seal
4								Solid PVC Riser
6			0.0	Top 6": Brown, SILT, some fine to medium Sand, some Silt				
6			0.0	Bottom 10": Brown, Clayey SILT, some fine to medium Sand, wet				Sand PVC Screen
8	5-10	20					Clayey SILT	
10								
12	10-15	60	0.0	Top 48": Brown, Clayey SILT, some fine to medium Sand, wet				
14			0.0	Bottom 12": Brown, fine to medium SAND, some Silt, wet			SAND	End Cap
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-85
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	50	0.0	Bottom 46": Brown, fine to medium SAND, some Silt, wet at 4			SAND	
4								
6			0.0	Top 12": Brown, fine to medium SAND, some Silt, wet				
8	5-10	60	0.0	Bottom 48": Brown, Clayey Silt, some fine to medium Sand, wet			Clayey SILT	
10				End of Boring at 10 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0				Top 4": Brown, TOPSOIL			TOPSOIL	No Well Installed
2	0-5	48		Bottom 44": Brown, fine to medium SAND, some Silt, wet at 3'			SAND	
4								
6				Top 12": Brown, fine to medium SAND, some Silt, wet				
8	5-10	60		Bottom 48": Brown, Clayey Silt, some fine to medium Sand, wet			Clayey SILT	
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL		ROCK CORE COMPLETED		CHECKED BY Jill Libby	
WEATHER		DEPTH TO WATER (ft) AND DATE		FIELD TEST TYPE	
DRILLING COMPANY Cisco Geotechnical		SAMPLER TYPE		APPROX. GROUND ELEVATION (ft)	
FOREMAN		SAMPLER ID & OD (in) ID:1.5" OD:2.25"		DATUM	
PROJECT NAME Brainard Airport		CLIENT BFJ Planning		BORING ID B-87 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive		START DATE		END DATE	
CITY, STATE Hartford, Connecticut		STARTING DEPTH (ft)		ENDING DEPTH (ft)	
				PROJECT NUMBER 12-5182-001	
				TIGHE & BOND REP	

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								
8								
10								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 5/17/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/17/2023	BORING ID B-88
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/17/2023	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	48		Top 8": Grey, ASPHALT			ASPHALT	No Well Installed
2				Next 16": Brown, fine to medium SAND, some Silt			SAND	
4				Bottom 24": Brown, Clayey SILT, some fine to medium SAND, wet at 4			Clayey SILT	
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 5/17/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-89	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/17/2023	END DATE 5/17/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	54	0.0	Top 9": Black, ASPHALT			ASPHALT	No Well Installed
2			0.0	Next 13": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
4			0.0	Next 19": Brown, fine to medium SAND, some Silt			SAND	
6			0.0	Bottom 14": Brown, SILT, some Sand, wet			SILT	
8	5-10	60	0.0	Brown, Clayey SILT, some fine to medium Sand			Clayey SILT	
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 5/17/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-90	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/17/2023	END DATE 5/17/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	50	0.0	Top 6": Black, ASPHALT		0	ASPHALT	No Well Installed
2			0.0	Next 12": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
			0.0	Bottom 32": Grey, fine to medium SAND, some Silt, wet at 4			SAND	
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-91
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	50	0.0	Top 4": Brown, TOPSOIL		0	TOPSOIL	No Well Installed
2			0.0	Next 31": Brown, fine to medium SAND, some Silt, trace Asphalt at 1.5'			SAND	
4			0.0	Bottom 15": Grey, fine to coarse Sand and fine GRAVEL, little Silt, diesel odor			SAND and GRAVEL	
			1.1					
			1.3					
				End of Boring at 5 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 9": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
			0.0	Next 4": Black, ASPHALT			ASPHALT	
2	0-5	40	0.0	Bottom 24": Brown, SILT, some fine to medium SAND, wet at 4'			SILT	
4								
6			0.0	Top 16": Grey, SILT, some fine to medium Sand, wet				
8	5-10	40	0.0	Bottom 24": Grey, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4/28/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 4/28/2023	BORING ID B-93
PROJECT LOCATION 20 Lindberg Drive	START DATE 4/28/2023	ENDING DEPTH (ft) 3	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-2.5	24	0.0	Top 4": Brown, TOPSOIL		0	TOPSOIL	No Well Installed
			0.0	Next 9": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt, trace Asphalt			SAND and GRAVEL	
2			0.0	Bottom 13": Light brown, fine to medium SAND, some Silt, little fine Gravel			SAND	
				End of Boring at 2.5 ft BGS				

NOTES:

DRILLING COMPANY
Cisco Geotechnical

SAMPLER TYPE
Macro Core

APPROX. GROUND ELEVATION (ft)
17

DATUM
NAVD88/NAD83

FOREMAN
Frank Harrington

SAMPLER ID & OD (in)
ID:1.5" OD:2.25"

APPROXIMATE X-LOCATION
1027480

APPROXIMATE Y-LOCATION
831888

PROJECT NAME
Brainard Airport

CLIENT
BFJ Planning

BORING ID
B-94/TMW-10

PROJECT LOCATION
20 Lindberg Drive

START DATE
4/27/2023

END DATE
4/27/2023

PROJECT NUMBER
12-5182-001

CITY, STATE
Hartford, Connecticut

STARTING DEPTH (ft)
0

ENDING DEPTH (ft)
15

TIGHE & BOND REP
C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 4": Brown, TOPSOIL			TOPSOIL	Road Box
2	0-5	51	0.0	Next 38": Brown, SILT, some fine to medium Sand			SILT	Concrete Bentonite Seal Solid PVC Riser
4			0.0	Bottom 9": Brown, Clayey SILT, some fine to medium Sand, wet				Sand
6			0.0	Top 24": Brown, Clayey SILT, some fine to medium Sand, wet				PVC Screen
8	5-10	39	0.0	Bottom 15": Brown, fine to coarse SAND, trace Silt, wet			Clayey SILT	
12	10-15	60	0.0	Brown, fine to coarse SAND, trace Silt, wet			SAND	End Cap
14				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 4/27/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/27/2023	END DATE 4/27/2023	BORING ID B-95
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	50	0	Top 4": Black, ASPHALT			ASPHALT	No Well Installed
2			Next 12": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, trace Brick, trace Asphalt	SAND and GRAVEL				
4			Next 23": Brown, SILT, some fine to medium Sand	SILT				
4			Bottom 11": Brown, Clayey SILT, some fine to medium Sand, wet	Clayey SILT				
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 5.00 4/27/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 4/27/2023	BORING ID B-96
PROJECT LOCATION 20 Lindberg Drive	START DATE 4/27/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 7": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 8": Reddish brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt			SAND	
2	0-5	45	0.0	Bottom 30": Brown, SILT, some fine to medium Sand			SILT	
4								
6			0.0	Top 20": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
8	5-10	32	0.0	Next 8": Brown, SILT, some fine to medium Sand, wet			SILT	
			0.0	Bottom 4": Brown, fine to coarse SAND, little Silt, wet			SAND	
				End of Boring at 10 ft BGS				

NOTES:

DRILLING COMPANY
Cisco Geotechnical

SAMPLER TYPE

Macro Core

APPROX. GROUND ELEVATION (ft)

"--"

DATUM

FOREMAN
Frank Harrington

SAMPLER ID & OD (in)

ID:1.5" OD:2.25"

APPROXIMATE X-LOCATION

"--"

APPROXIMATE Y-LOCATION

"--"

PROJECT NAME
Brainard Airport

CLIENT

BFJ Planning

BORING ID

B-97

PROJECT LOCATION
20 Lindberg Drive

START DATE

4/27/2023

END DATE

4/27/2023

PROJECT NUMBER

12-5182-001

CITY, STATE
Hartford, Connecticut

STARTING DEPTH (ft)

0

ENDING DEPTH (ft)

10

TIGHE & BOND REP

C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction			
0	0-5	38	0.0	Top 8": Black, ASPHALT			ASPHALT	No Well Installed			
			0.0	Next 7": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL				
2		0.0	Bottom 23": Light brown, fine to medium SAND, some Silt	SAND							
4											
6	5-10	42	0.0	Top 32": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT				
8			0.0	Bottom 10": Brown, fine to coarse SAND, little Silt			SAND				
				End of Boring at 10 ft BGS							

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5.00 4/27/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/27/2023	END DATE 4/27/2023	BORING ID B-98
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction			
0	0-5	41	0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed			
			0.0	Next 10": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt			SAND and GRAVEL				
2		0.0	Bottom 25": Light brown, fine to medium SAND, some Silt	SAND							
4											
6	5-10	40	0.0	Top 32": Brown, SILT, some fine to medium Sand, wet			SILT				
8			0.0	Bottom 8": Brown, fine to medium SAND, little Silt, trace coarse Sand, wet			SAND				
				End of Boring at 10 ft BGS							

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 9": Brown, TOPSOIL			TOPSOIL	No Well Installed
			0.0	Next 3": Brown, fine to coarse GRAVEL, some fine to coarse Sand, trace Silt, trace Brick			GRAVEL	
2	0-5	48	0.0	Bottom 36": Light brown, fine to medium SAND			SAND	
6	5-10	12	0.0	Top 9": Light brown, fine to medium SAND Bottom 3": Brown Clayey SILT, some fine to medium Sand, wet cobble stuck in shoe, wet at 6.5			Clayey SILT	
				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.00 4/28/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/28/2023	END DATE 4/28/2023	BORING ID B-100
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	32	0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
2			Next 22": Dark Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt	SAND and GRAVEL				
4			Next 2": White, Crushed CONCRETE Bottom 2": Red, BRICK	Crushed CONCRETE				
6	Top 22": Light brown, fine to coarse SAND, trace Silt	BRICK						
8	5-10	32	6	Brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt, wet			SAND	
10			End of Boring at 10 ft BGS					

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.50 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-101
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 12": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt			SAND and GRAVEL	
2	0-5	50	0.0	Bottom 32": Grey, fine to medium SAND, some Silt, wet at 4.5			SAND	
4								
6				Brown, SILT, some fine to medium Sand, wet			SILT	
8	5-10	60	0.0					
10				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-102
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 3": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, some Silt			SAND and GRAVEL	
2	0-5	42	0.0	Bottom 36": Brown, fine to medium SAND, some Silt, wet at 4			SAND	
4								
6								
8	5-10	44	0.0	Brown, Clayey SILT, some fine to medium Sand			Clayey SILT	
10				End of Boring at 10 ft BGS				

NOTES:



RIG MAKE/MODEL		ROCK CORE COMPLETED		CHECKED BY Jill Libby	
WEATHER		DEPTH TO WATER (ft) AND DATE		FIELD TEST TYPE	
DRILLING COMPANY Cisco Geotechnical		SAMPLER TYPE		APPROX. GROUND ELEVATION (ft)	
FOREMAN		SAMPLER ID & OD (in) ID:1.5" OD:2.25"		DATUM	
PROJECT NAME Brainard Airport		CLIENT BFJ Planning		BORING ID B-103 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive		START DATE		END DATE	
CITY, STATE Hartford, Connecticut		STARTING DEPTH (ft)		ENDING DEPTH (ft)	
				PROJECT NUMBER 12-5182-001	
				TIGHE & BOND REP	

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								
8								
10								

NOTES:



RIG MAKE/MODEL		ROCK CORE COMPLETED	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE	DTW MEASURING LOCATION	FIELD TEST TYPE
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE	APPROX. GROUND ELEVATION (ft)	DATUM
FOREMAN	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION	APPROXIMATE Y-LOCATION
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-104 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive	START DATE	END DATE	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft)	ENDING DEPTH (ft)	TIGHE & BOND REP

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								
8								
10								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 5/1/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-105	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/1/2023	END DATE 5/1/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 8": Black, ASPHALT			ASPHALT	No Well Installed
2	0-5	28	0.0	Bottom 20": Grey, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, trace Brick, tarnt petro odor, moist			SAND and GRAVEL	
			5.6					
			4.1					
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5.00 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-106
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	36	0.0	Top 7": Black, ASPHALT		0	ASPHALT	No Well Installed
			1.2	Next 3": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2			0.0	Bottom 26": Brown, fine to medium SAND, some Silt				
4								
6	5-10	42	0.0	Brown, fine to medium SAND, some Silt, wet		5-10	SAND	
8			0.0					
10			0.0					
				End of Boring at 10 ft BGS				

NOTES:

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Black, ASPHALT			ASPHALT	Road Box
			0.0	Next 10": Brown, fine to coarse SAND, little fine to coarse Gravel, trace Silt				Concrete
2	0-5	44	0.0	Bottom 28": Brown, fine to medium SAND, some Silt			SAND	Sand
4								Bentonite Seal
6	5-10	54	0.0	Top 24": Brown, fine to medium SAND, some Silt, wet at 6'			SAND	Solid PVC Riser
8			0.0	Bottom 30": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	Sand
10								PVC Screen
12	10-15	60	0.0	Top 48": Brown, Clayey SILT, some fine to medium Sand, wet				
14			0.0	Bottom 12": Brown, fine to medium SAND, some Silt			SAND	
				End of Boring at 15 ft BGS				End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.59 5/18/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 15	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1026964	APPROXIMATE Y-LOCATION 830100
PROJECT NAME Brainard Airport	START DATE 5/18/2023	END DATE 5/18/2023	BORING ID B-108/TMW-12
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0				0-6": ASPHALT			ASPHALT	Road Box
2	0-5	52		6-20": Red-brown, fine to coarse SAND and GRAVEL			SAND and GRAVEL	Sand
4				20-50": Grey, SILT			SILT	Bentonite Seal Solid PVC Riser
6				0-12": Grey, SILT				
8	5-10	50		12-50": Grey, SILT and fine SAND, wet				Sand PVC Screen
10				0-13": Grey, SILT and fine SAND, wet				
12	10-15	60		13-60": Grey, fine SAND and SILT, wet			SAND and SILT	
14								End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.50 5/5/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/5/2023	END DATE 5/5/2023	BORING ID B-109
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Next 6": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	50	0.0	Bottom 38": Light brown, fine to medium SAND, some Silt, wet at 4.5			SAND	
4				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 5/5/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-110	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/5/2023	END DATE 5/5/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	46	0.0	Top 12": Black, ASPHALT		0	ASPHALT	No Well Installed
2			0.0	Next 4": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
4			0.0	Bottom 30": Grey, fine to medium SAND, some Silt, wet at 4			SAND	
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 5.00 5/5/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-111	
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/5/2023	END DATE 5/5/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	48	0.0	Top 3": Black, ASPHALT		0-3	ASPHALT	No Well Installed
			0.0	Next 3": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Silt			SAND and GRAVEL	
2			0.0	Bottom 40": Grey, Clayey SILT, some fine to medium Silt, wet at 3			Clayey SILT	
4				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 3.00 4/27/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/27/2023	END DATE 4/27/2023	BORING ID B-112
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 5": TOPSOIL			TOPSOIL	No Well Installed
2	0-5	53	0.0	Next 31": Brown, SILT, some fine to medium Sand			SILT	
4			0.0	Bottom 17": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 3.00 4/27/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Frank Harrington	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-113	
PROJECT LOCATION 20 Lindberg Drive	START DATE 4/27/2023	END DATE 4/27/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	52	0.0	Top 5": Brown, TOPSOIL		0	TOPSOIL	No Well Installed
2			0.0	Next 27": Brown, SILT, some fine to medium Sand			SILT	
4			0.0	Bottom 20": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 3.00 4/27/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 4/27/2023	END DATE 4/27/2023	BORING ID B-114
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 5": Brown, TOPSOIL			TOPSOIL	No Well Installed
			0.0	Next 16": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	42	0.0	Bottom 21": Brown, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
				End of Boring at 5 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-115
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	50	0.0	Top 5": Black, ASPHALT		0	ASPHALT	No Well Installed
			0.0	Next 13": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Brick, little Crushed Rock, trace Silt			SAND and GRAVEL	
2			0.0	Next 18": Brown, Clayey SILT, some fine to medium Sand			Clayey SILT	
4			0.0	Bottom 14": Brown, fine to medium SAND, some Silt				
6	5-10	60					SAND	
8			0.0	Brown, fine to medium SAND, some Silt, wet at 6				
10				End of Boring at 10 ft BGS				

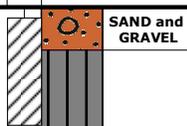
NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 10.00 5/17/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/17/2023	BORING ID B-116
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/17/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	48	0.0	Top 6": Black, ASPHALT			ASPHALT	No Well Installed
			0.0	Bottom 6": Brown, fine to coarse SAND and fine to coarse GRAVEL, little Asphalt, trace Silt, trace Brick			SAND and GRAVEL	
2			0.0	Next 18": Brown, Clayey SILT, some Silt			Clayey SILT	
4			0.0	Bottom 18": Brown, fine to medium SAND, some Silt, wet at 4			SAND	
6	5-10	60	0.0	Brown, fine to medium SAND, some Silt, wet				
8								
10	End of Boring at 10 ft BGS							

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 4.00 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-117
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 12": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			 SAND and GRAVEL	No Well Installed
2	0-5	42	0.0	Bottom 30": Grey, SILT, some fine to medium Sand, wet at 4			SILT	
6			0.0	Top 36": Grey, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
8	5-10	48	0.0	Bottom 12": Grey, fine to medium SAND, some Silt, wet			SAND	
				End of Boring at 10 ft BGS				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/19/2023	END DATE 5/19/2023	BORING ID B-118
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction	
0	0-5	47	0.0	0-3": ASPHALT		0-3"	ASPHALT	No Well Installed	
			0.0	3-13": Brown to red, fine to coarse SAND and GRAVEL, little Asphalt Millings, trace Silt			SAND and GRAVEL		
2			0.0	13-22": Grey, SILT, little fine Sand			SILT		
			0.0	22-25": Light brown, fine to medium SAND, trace Silt			SAND		
4			0.0	25-47": Grey, SILT			4-25"		SILT
6	5-10	55	0.0	0-14": Grey, SILT			0-14"		SILT
8			0.0	14-43": Grey, Clayey SILT, wet			14-43"		Clayey SILT
10			0.0	43-55": Brown, fine SAND and SILT, wet			43-55"		SAND and SILT

NOTES:

DRILLING COMPANY
Cisco Geotechnical

SAMPLER TYPE
Macro Core

APPROX. GROUND ELEVATION (ft)
13

DATUM
NAVD88/NAD83

FOREMAN
John Knapp

SAMPLER ID & OD (in)
ID:1.5" OD:2.25"

APPROXIMATE X-LOCATION
1027198

APPROXIMATE Y-LOCATION
829027

PROJECT NAME
Brainard Airport

CLIENT
BFJ Planning

BORING ID
B-119/TMW-13

PROJECT LOCATION
20 Lindberg Drive

START DATE
5/19/2023

END DATE
5/19/2023

PROJECT NUMBER
12-5182-001

CITY, STATE
Hartford, Connecticut

STARTING DEPTH (ft)
0

ENDING DEPTH (ft)
15

TIGHE & BOND REP
I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-3": Light brown, fine to medium SAND, some Silt			SAND	Road Box
2	0-5	50	0.0	3-50": Brown, fine SAND and SILT			SAND and SILT	Sand Bentonite Seal Solid PVC Riser
4								
6	5-10	49	0.0	0-43": Brown, medium to coarse SAND, trace Silt, wet			SAND	Sand PVC Screen
8			0.0	43-49": Grey, fine SAND and SILT, wet			SAND and SILT	
10			0.0	0-6": Brown, SILT, wet			SILT	
12	10-15	51	0.0	6-40": Brown and Grey, Clayey SILT, wet			Clayey SILT	
14			0.0	40-51": Brown, medium to coarse SAND, wet			SAND	End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/19/2023	END DATE 5/19/2023	BORING ID B-120
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	45	0.0	0-3": ASPHALT		0	ASPHALT	No Well Installed
			0.0	3-11": Red-brown, fine to coarse SAND, some Gravel, trace Silt			SAND	
			0.0	11-16": Grey, SILT, little fine Sand			SILT	
2			0.0	16-19": Light brown, fine to medium SAND, trace Silt			SAND	
			0.0	19-33": Grey, SILT, little fine Sand				
	0.0	33-45": Brown, SILT, little fine Sand						
4	5-10	54	0.0	0-12": Brown, SILT, little fine Sand		0	SILT	
6			0.0	12-41": Brown, Clayey SILT, wet			Clayey SILT	
			0.0	41-54": Brown, fine SAND and SILT, wet			SAND and SILT	
8								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No		CHECKED BY Jill Libby	
WEATHER		DEPTH TO WATER (ft) AND DATE 6.00 5/19/2023		DTW MEASURING LOCATION GS	
DRILLING COMPANY Cisco Geotechnical		SAMPLER TYPE Macro Core		FIELD TEST TYPE PID (PPM)	
FOREMAN John Knapp		SAMPLER ID & OD (in) ID:1.5" OD:2.25"		APPROX. GROUND ELEVATION (ft) "-"	
PROJECT NAME Brainard Airport		CLIENT BFJ Planning		APPROXIMATE X-LOCATION "-"	
PROJECT LOCATION 20 Lindberg Drive		START DATE 5/19/2023		APPROXIMATE Y-LOCATION "-"	
CITY, STATE Hartford, Connecticut		END DATE 5/19/2023		BORING ID B-121	
		STARTING DEPTH (ft) 0		PROJECT NUMBER 12-5182-001	
		ENDING DEPTH (ft) 10		TIGHE & BOND REP I.Adomeit	

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	49		0-22": Brown, fine SAND and SILT, no odor				No Well Installed
2				22-28": Brown, fine to medium SAND, trace Silt, no odor				
3				28-33": Brown, SILT, no odor				
4				33-49": Brown, fine to coarse SAND, no odor				
6	5-10	49		0-38": Brown, fine to coarse SAND, wet at 12", no odor			SAND	
8				38-49": Grey, SILT, faint odor				

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 5.50 5/19/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/19/2023	BORING ID B-122
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/19/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	55		0-30": Brown, fine SAND and SILT, no odor			SAND and SILT	No Well Installed
2				30-55": Brown, SILT, some fine Sand, moist at 42", no odor			SILT	
4	0-6": Brown, SILT, some fine Sand, no odor, moist	Clayey SILT						
6	6-30": Brown, Clayey SILT, wet, no odor							
8	5-10	50		30-50": Brown, fine SAND and SILT, wet, no odor	SAND and SILT			

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.00 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/19/2023	END DATE 5/19/2023	BORING ID B-123
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	52	0-0.25	0-14": Light brown, fine SAND and SILT, little Gravel, no odor		0-14"	SAND and SILT	No Well Installed
2			0.25-0.5	14-22": Brown, SILT, little fine Sand, no odor		14-22"	SILT	
4			0.5-0.75	22-37": Light brown, fine to medium SAND, no odor		22-37"	SAND	
6	0.75-1.0	37-52": Brown, SILT, little fine Sand, no odor	37-52"	SILT				
8	1.0-1.25	0-24": Brown, Clayey SILT, wet at 6", no odor	0-24"	Clayey SILT				
	5-10	42	1.25-1.5	24-42": Brown, SILT and fine SAND, wet, no odor	24-42"	SILT and SAND		
			1.5-1.75					

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5.00 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/19/2023	END DATE 5/19/2023	BORING ID B-124
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	43	0-0.25	0-19": Brown, fine SAND and SILT, no odor		0-19"	SAND and SILT	No Well Installed
2			0.25-0.5	19-30": Brown, medium SAND, little Silt, no odor			SAND	
4			0.5-0.75	30-43": Brown, SILT and fine SAND, no odor			SILT and SAND	
6	0.75-1.0	0-48": Brown, SILT, some fine Sand, wet, no odor	SILT					
8	1.0-1.25							

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 6.00 5/19/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "-"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "-"	APPROXIMATE Y-LOCATION "-"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/19/2023	BORING ID B-125
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/19/2023	ENDING DEPTH (ft) 10	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction	
0	0-5	48		0-15": Brown, fine to medium SAND, some Silt, trace Gravel, no odor			SAND	No Well Installed	
2				15-20": Red, COBBLE, no odor					COBBLE
4				20-31": Light brown, fine to medium SAND, trace Silt, no odor					SAND
6		31-48": Brown, SILT, some fine Sand, no odor	SILT						
6	5-10	27		0-27": Brown, Clayey SILT, wet, no odor		Clayey SILT			

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 8.76 5/19/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) 14	DATUM NAVD88/NAD83
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION 1027261	APPROXIMATE Y-LOCATION 829440
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/19/2023	BORING ID B-126/TMW-14
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/19/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-3": Brown, fine to medium SAND, some Silt			SAND	Road Box
2	0-5	51	0.0	3-25": Brown, fine SAND and SILT			SAND and SILT	Sand
4			0.0	25-51": Brown, SILT and fine SAND, wet at 48"				Bentonite Seal
6								Solid PVC Riser
8	5-10	57	0.0	0-57": Brown, SILT, little fine Sand, wet			SILT	Sand
10								PVC Screen
12			0.0	0-28": Brown, SILT, little fine Sand, wet				
14	10-15	60	0.0	28-60": Grey, fine SAND and SILT, moist			SAND and SILT	End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.90 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 11	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1026741	APPROXIMATE Y-LOCATION 828352
PROJECT NAME Brainard Airport	START DATE 5/19/2023	END DATE 5/19/2023	BORING ID B-127/TMW-15
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-10": Light brown, fine SAND and SILT			SAND and SILT	Road Box
2	0-5	36	0.0	10-36": Light brown, medium to coarse SAND			SAND	Sand Bentonite Seal Solid PVC Riser
4								
6			0.0	0-12": Light brown, medium to coarse SAND				
8	5-10	44	0.0	12-44": Grey, Clayey SILT, moist			Clayey SILT	Sand PVC Screen
10			0.0	0-13": Grey, Clayey SILT, wet				
12	10-15	51	0.0	13-38": Grey, SILT, some fine Sand, moist			SILT	
14								End Cap

NOTES:

RIG MAKE/MODEL		ROCK CORE COMPLETED	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE	DTW MEASURING LOCATION	FIELD TEST TYPE
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE	APPROX. GROUND ELEVATION (ft)	DATUM
FOREMAN	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION	APPROXIMATE Y-LOCATION
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-128 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive	START DATE	END DATE	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft)	ENDING DEPTH (ft)	TIGHE & BOND REP

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								
8								
10								
12								
14								
16								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.31 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 16	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1027148	APPROXIMATE Y-LOCATION 830909
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-129/TMW-16
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": Brown, TOPSOIL			TOPSOIL	Road Box
			0.0	Next 18": Brown, fine to medium SAND, some Silt			SAND	Concrete
2	0-5	50	0.0	Next 15": Brown, SILT, some fine to medium SAND			SILT	Sand
			0.0	Bottom 15": Brown, Clayey SILT, some fine to medium Sand, wet at 4			Clayey SILT	Bentonite Seal
4			0.0					Solid PVC Riser
6			0.0	Top 12": Brown, Clayey SILT, some fine to medium Sand, wet				
8	5-10	60	0.0	Bottom 48": Brown, fine to medium SAND, some Silt, wet			SAND	Sand
10								PVC Screen
12	10-15	48	0.0	Brown, fine to medium SAND, some Silt, wet				
14								
				End of Boring at 15 ft BGS				End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.31 5/22/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 16	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1027658	APPROXIMATE Y-LOCATION 830913
PROJECT NAME Brainard Airport	START DATE 5/22/2023	END DATE 5/22/2023	BORING ID B-130/TMW-17
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-12": Brown, fine SAND and SILT				
2	0-5	54	0.0	12-54": Brown, SILT and fine SAND				
4								
6								
8	5-10	60	0.0	0-60": Brown, fine SAND and SILT, wet at 12"				
10								
12	10-15	60	0.0	0-60": Brown, fine SAND and SILT, wet				
14								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 4.00 4/28/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	BORING ID B-131	
PROJECT LOCATION 20 Lindberg Drive	START DATE 4/28/2023	END DATE 4/28/2023	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	TIGHE & BOND REP C.Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 8": Black, ASPHALT			ASPHALT	No Well Installed
2	0-5	48	0.0	Bottom 40": Brown, fine to medium SAND, some Silt, wet at 4			SAND	
4				End of Boring at 5 ft BGS				

NOTES:



RIG MAKE/MODEL		ROCK CORE COMPLETED		CHECKED BY Jill Libby	
WEATHER		DEPTH TO WATER (ft) AND DATE		FIELD TEST TYPE	
DRILLING COMPANY Cisco Geotechnical		SAMPLER TYPE		APPROX. GROUND ELEVATION (ft)	
FOREMAN		SAMPLER ID & OD (in) ID:1.5" OD:2.25"		APPROXIMATE X-LOCATION	
PROJECT NAME Brainard Airport		CLIENT BFJ Planning		BORING ID B-132 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive		START DATE		END DATE	
CITY, STATE Hartford, Connecticut		STARTING DEPTH (ft)		ENDING DEPTH (ft)	
				PROJECT NUMBER 12-5182-001	
				TIGHE & BOND REP	

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) "--"	DATUM
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION "--"	APPROXIMATE Y-LOCATION "--"
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-133
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 5	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0				Top 4": Black, ASPHALT			ASPHALT	No Well Installed
				Next 3": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SAND and GRAVEL	
2	0-5	44		Next 11": Reddish brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt			SILT	
				Next 14": Grey, SILT, some fine to medium Sand			SAND	
				Bottom 12": Brown, fine to medium SAND, some Silt				
				End of Boring at 5 ft BGS				

NOTES:



RIG MAKE/MODEL		ROCK CORE COMPLETED		CHECKED BY Jill Libby	
WEATHER		DEPTH TO WATER (ft) AND DATE		FIELD TEST TYPE	
DRILLING COMPANY Cisco Geotechnical		SAMPLER TYPE		APPROX. GROUND ELEVATION (ft)	
FOREMAN		SAMPLER ID & OD (in) ID:1.5" OD:2.25"		DATUM	
PROJECT NAME Brainard Airport		CLIENT BFJ Planning		BORING ID B-134 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive		START DATE		END DATE	
CITY, STATE Hartford, Connecticut		STARTING DEPTH (ft)		ENDING DEPTH (ft)	
				PROJECT NUMBER 12-5182-001	
				TIGHE & BOND REP	

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 7.06 5/22/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) 11	DATUM NAVD88/NAD83
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION 1027672	APPROXIMATE Y-LOCATION 827468
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/22/2023	BORING ID B-135/TMW-18
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/22/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	42	0.0	0-12": Brown, fine to medium SAND, some Asphalt Millings, little Gravel, little Silt			SAND	Road Box
2			0.0	12-32": Brown, fine to coarse SAND, little Silt, little Gravel, trace Debris(metal piece), moist at 19"			SAND and SILT	Sand
			0.0	32-38": Grey, fine SAND and SILT			SAND	Bentonite Seal
4			0.0	38-42": Light brown, fine to medium SAND, little Silt, moist			SAND	Solid PVC Riser
6	5-10	40	0.0	0-2": Light brown, fine to medium SAND, little Silt, moist			SAND and SILT	
			0.0	2-6": Grey, fine fine SAND and SILT, moist			SAND	Sand
8			0.0	6-34": Brown, fine to coarse SAND, little Silt, wet			Clayey SILT	PVC Screen
10	10-15	60	0.0	0-16": Brown, fine to coarse SAND, little Silt, wet			SAND	
12			0.0	16-40": Grey, Clayey SILT, wet			Clayey SILT	
14			0.0	40-60": Grey, fine to medium SAND, little Silt, wet			SAND	End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 6.09 5/22/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 13	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1028465	APPROXIMATE Y-LOCATION 829703
PROJECT NAME Brainard Airport	START DATE 5/22/2023	END DATE 5/22/2023	BORING ID B-136/TMW-19
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-18": Brown, fine to medium SAND, some Silt			SAND	Road Box
2	0-5	47	0.0	18-47": Grey, fine SAND and SILT, moist at 39"				Sand
4								Bentonite Seal
6								Solid PVC Riser
8	5-10	60	0.0	0-60": Grey-brown, fine SAND and SILT, wet at 12"			SAND and SILT	Sand
10								PVC Screen
12	10-15	57	0.0	0-21": Grey-brown, fine SAND and SILT, wet				
			0.0	21-32": Grey, fine to medium SAND, little Silt				
14			0.0	32-57": Brown, fine to coarse SAND, little Silt			SAND	
								End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.02 5/22/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 16	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1028242	APPROXIMATE Y-LOCATION 831388
PROJECT NAME Brainard Airport	START DATE 5/22/2023	END DATE 5/22/2023	BORING ID B-137/TMW-20
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-13": Brown, fine to medium SAND and SILT, trace Gravel				Road Box
2	0-5	55	0.0	13-55": Light brown, fine SAND and SILT				Sand
4								Bentonite Seal
6								Solid PVC Riser
8	5-10	60	0.0	0-60": Light brown, fine SAND and SILT, wet at 12"				Sand
10								PVC Screen
12								
14	10-15	60	0.0	0-26": Light brown, fine SAND and SILT, wet				
				26-54": Grey, fine SAND and SILT, wet				
				54-60": Grey, fine to medium SAND, little Silt, wet				End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 9.86 5/1/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 19	DATUM NAVD88/NAD83
FOREMAN Frank Harrington	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1026740	APPROXIMATE Y-LOCATION 832156
PROJECT NAME Brainard Airport	START DATE 5/1/2023	END DATE 5/1/2023	BORING ID B-138/TMW-21
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP C. Watts

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0	0-5	40	0.0	Top 4": Brown, TOPSOIL			TOPSOIL SAND and GRAVEL SAND Clayey SILT	Road Box Concrete Sand Bentonite Seal Solid PVC Riser Sand PVC Screen End Cap
			0.0	Next 14": Brown, fine to coarse SAND and fine to coarse GRAVEL, trace Silt, trace Asphalt				
2			0.0	Next 6": Light brown, fine to coarse SAND, trace Silt				
			0.0	Bottom 16": Brown, Clayey SILT, some fine to medium Sand, little Brick, trace Asphalt				
6	5-10	60	0.0	Brown, fine to coarse SAND, trace Silt, trace coarse Gravel, wet at 7'			SAND	
8			0.0	Top 12": Brown, fine to coarse SAND, trace Silt, trace coarse Gravel, wet				
12	10-15	60	0.0	Bottom 48": Grey, Clayey SILT, some fine to medium Sand, wet			Clayey SILT	
14			0.0					
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL		ROCK CORE COMPLETED		CHECKED BY Jill Libby	
WEATHER		DEPTH TO WATER (ft) AND DATE		FIELD TEST TYPE	
DRILLING COMPANY Cisco Geotechnical		SAMPLER TYPE		APPROX. GROUND ELEVATION (ft)	
FOREMAN		SAMPLER ID & OD (in) ID:1.5" OD:2.25"		DATUM	
PROJECT NAME Brainard Airport		CLIENT BFJ Planning		BORING ID B-139 (NO BORING)	
PROJECT LOCATION 20 Lindberg Drive		START DATE		END DATE	
CITY, STATE Hartford, Connecticut		STARTING DEPTH (ft)		ENDING DEPTH (ft)	
				PROJECT NUMBER 12-5182-001	
				TIGHE & BOND REP	

Depth (ft)	Sample Depth (ft)	Rec. (in)	Strater8 7654	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0								No Well Installed
2								
4								
6								
8								
10								
12								
14								
16								

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 8.47 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 14	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1026622	APPROXIMATE Y-LOCATION 829129
PROJECT NAME Brainard Airport	START DATE 5/19/2023	END DATE 5/19/2023	BORING ID B-140/TMW-23
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-16": Light brown, fine SAND and SILT			SAND and SILT	Road Box
2	0-5	54	0.0	16-54": Light brown, fine to coarse SAND, trace Cobbles, moist at 32"			SAND	Sand
4								Bentonite Seal
6			0.0	0-18": Light brown, fine to coarse SAND, wet				Solid PVC Riser
8	5-10	36	0.0	18-36": Grey, Clayey SILT, moist			Clayey SILT	Sand
10								PVC Screen
12	10-15	60	0.0	0-48": Grey, Clayey SILT, wet				
14			0.0	48-60": Grey, fine to medium SAND, some Silt			SAND	End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 10.83 5/19/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Macro Core	APPROX. GROUND ELEVATION (ft) 12	DATUM NAVD88/NAD83
FOREMAN John Knapp	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROXIMATE X-LOCATION 1025466	APPROXIMATE Y-LOCATION 828512
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/19/2023	BORING ID B-141/TMW-24
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/19/2023	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	0-10": Light brown, fine SAND, some Silt			SAND	Road Box
2	0-5	50	0.0	10-50": Brown, fine SAND and SILT, little Gravel			SAND and SILT	Sand
4								Bentonite Seal
6	5-10	43	0.0	0-34": Brown, fine to coarse SAND and SILT, some Gravel, wet				Solid PVC Riser
8			0.0	34-43": Light brown, fine to medium SAND, little Silt			SAND	Sand
10			0.0	0-8": Light brown, SILT, little fine Sand, moist			SILT	PVC Screen
12	10-15	55	0.0	8-32": Brown to Grey, fine SAND and SILT, orange iron stain 16-20", moist			SAND and SILT	
14			0.0	32-55": Grey, fine to medium SAND, some Silt			SAND	End Cap

NOTES:

RIG MAKE/MODEL Geoprobe 6620DT	DEPTH TO WATER (ft) AND DATE 7.39 5/17/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	SAMPLER TYPE Macro Core	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER ID & OD (in) ID:1.5" OD:2.25"	APPROX. GROUND ELEVATION (ft) 14	DATUM NAVD88/NAD83
FOREMAN John Knapp	CLIENT BFJ Planning	APPROXIMATE X-LOCATION 1026778	APPROXIMATE Y-LOCATION 830125
PROJECT NAME Brainard Airport	START DATE 5/17/2023	END DATE 5/17/2023	BORING ID B-142/TMW-25
PROJECT LOCATION 20 Lindberg Drive	STARTING DEPTH (ft) 0	ENDING DEPTH (ft) 15	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut			TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction
0			0.0	Top 3": ASPHALT			ASPHALT	Road Box
			0.0	Next 10": Red, medium to coarse SAND and GRAVEL			SAND and GRAVEL	
2	0-5	45	0.0	Next 12": Grey, fine SILT and SAND			SILT and SAND	Sand
			0.0	Bottom 20": Grey, SILT, moist at 37"				Bentonite Seal
4								Solid PVC Riser
6								
8	5-10	60	0.0	Grey, SILT, wet			SILT	Sand
								PVC Screen
10								
12	10-15	60	0.0	Top 40": Grey, SILT, wet				
14			0.0	Bottom 20": Grey, fine to medium SAND			SAND	
								End Cap
				End of Boring at 15 ft BGS				

NOTES:

RIG MAKE/MODEL Julio Aquino	DEPTH TO WATER (ft) AND DATE 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER		DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Hand Auger	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Julio Aquino	SAMPLER ID & OD (in) ID:2" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/19/2023	BORING ID B-143
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/19/2023	ENDING DEPTH (ft) 1	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction						
0	0-5	13	<table border="1"> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> </table>	0.0	0.0	0.0	0-4": CONCRETE 4-6": GRAVEL, some grey fine to coarse Sand 6-13": Grey-brown, fine SAND and SILT			<table border="1"> <tr><td>CONCRETE</td></tr> <tr><td>GRAVEL</td></tr> <tr><td>SAND and SILT</td></tr> </table>	CONCRETE	GRAVEL	SAND and SILT	No Well Installed
0.0														
0.0														
0.0														
CONCRETE														
GRAVEL														
SAND and SILT														

NOTES:

RIG MAKE/MODEL Julio Aquino		ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER	DEPTH TO WATER (ft) AND DATE 5/19/2023	DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Hand Auger	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Julio Aquino	SAMPLER ID & OD (in) ID:2" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/19/2023	BORING ID B-144
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/19/2023	ENDING DEPTH (ft) 1	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction							
0	0-5	12	<table border="1"> <tr><td>0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> </table>	0	0.0	0.0	0.0	0-4": CONCRETE 4-6": GRAVEL, some grey fine to coarse Sand 6-12": Grey-Brown, fine SAND and SILT			<table border="1"> <tr><td>CONCRETE</td></tr> <tr><td>GRAVEL</td></tr> <tr><td>SAND and SILT</td></tr> </table>	CONCRETE	GRAVEL	SAND and SILT	No Well Installed
0															
0.0															
0.0															
0.0															
CONCRETE															
GRAVEL															
SAND and SILT															

NOTES:

RIG MAKE/MODEL Julio Aquino	DEPTH TO WATER (ft) AND DATE 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER		DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Hand Auger	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Julio Aquino	SAMPLER ID & OD (in) ID:2" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/19/2023	BORING ID B-145
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/19/2023	ENDING DEPTH (ft) 1	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction			
0	0-5	12	<table border="1"> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> </table>	0.0	0.0	0.0	0-4": CONCRETE 4-6": GRAVEL, some grey fine to coarse Sand 6-12": Brown, SILT and fine to medium SAND				No Well Installed
0.0											
0.0											
0.0											

NOTES:

RIG MAKE/MODEL Julio Aquino	DEPTH TO WATER (ft) AND DATE 5/19/2023	ROCK CORE COMPLETED No	CHECKED BY Jill Libby
WEATHER		DTW MEASURING LOCATION GS	FIELD TEST TYPE PID (PPM)
DRILLING COMPANY Cisco Geotechnical	SAMPLER TYPE Hand Auger	APPROX. GROUND ELEVATION (ft) "---"	DATUM
FOREMAN Julio Aquino	SAMPLER ID & OD (in) ID:2" OD:2.25"	APPROXIMATE X-LOCATION "---"	APPROXIMATE Y-LOCATION "---"
PROJECT NAME Brainard Airport	CLIENT BFJ Planning	END DATE 5/19/2023	BORING ID B-146
PROJECT LOCATION 20 Lindberg Drive	START DATE 5/19/2023	ENDING DEPTH (ft) 1	PROJECT NUMBER 12-5182-001
CITY, STATE Hartford, Connecticut	STARTING DEPTH (ft) 0		TIGHE & BOND REP I.Adomeit

Depth (ft)	Sample Depth (ft)	Rec. (in)	PID (PPM)	Sample Description	Remarks	Lab Sample Depth (ft)	General Stratigraphy	Well Construction						
0	0-5	12	<table border="1"> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> <tr><td>0.0</td></tr> </table>	0.0	0.0	0.0	0-4": CONCRETE 4-6": GRAVEL, some grey fine to coarse Sand 6-12": Brown, SILT and fine to medium SAND			<table border="1"> <tr><td>CONCRETE</td></tr> <tr><td>GRAVEL</td></tr> <tr><td>SAND and SILT</td></tr> </table>	CONCRETE	GRAVEL	SAND and SILT	No Well Installed
0.0														
0.0														
0.0														
CONCRETE														
GRAVEL														
SAND and SILT														

NOTES:

Tighe&Bond

APPENDIX D

Phase II/III Work Plan

Primary AOC	Preliminary Secondary AOC(s)	Well ID	Analytical (Groundwater)											
			ETPH	VOCs	1,4-Dioxane	SVOCs	PAHs	RCRA 8 Metals	RSR Metals	Pb	PCBs	Pest.	PFAS	
REC-1 (1)	AOC-10 (1)	TMW-1	1	1	1	1					1			
AOC-1 (1)		TMW-2	1	1	1	1	1	1	1	1	1	1	1	1
AOC-1 (2)	AOC-2 (9)	TMW-3	1	1	1	1	1	1	1	1	1	1	1	1
	AOC-7 (1)													
AOC-2 (6)	AOC-5 AOC-8 (1)	TMW-4	1	1		1				1		1		
AOC-2 (9)		TMW-5	1	1	1	1	1	1	1	1	1	1	1	1
AOC-7 (2)	AOC-2 (21)	TMW-6	1	1	1	1	1	1	1	1	1	1	1	1
AOC-8 (3)	AOC-2 (24)	TMW-7	1	1	1	1	1	1	1	1	1	1	1	1
AOC-8 (4)	AOC-2 (25)	TMW-8	1	1	1	1	1	1	1	1	1	1	1	1
AOC-3 (4)	AOC-2 (19)	TMW-9	1	1	1	1	1	1	1	1	1	1	1	1
AOC-5		TMW-10	1	1	1	1	1	1	1	1	1	1	1	1
AOC-8 (2)		TMW-11	1	1	1	1	1	1	1	1	1	1	1	1
AOC-8 (5)		TMW-12	1	1	1	1	1	1	1	1	1	1	1	1
AOC-11		TMW-13	1	1	1	1	1	1	1	1	1	1	1	1
		TMW-14	1	1	1	1	1	1	1	1	1	1	1	1
AOC-12		TMW-15	1	1	1	1	1	1	1	1	1	1	1	1
AOC-13		TMW-16	1	1	1	1	1	1	1	1	1	1	1	1
		TMW-17	1	1	1	1	1	1	1	1	1	1	1	1
AOC-17 & Off-Site (1&2)		TMW-18	1	1	1	1	1	1	1	1	1	1	1	1
		TMW-19	1	1	1	1	1	1	1	1	1	1	1	1
		TMW-20	1	1	1	1	1	1	1	1	1	1	1	1
		TMW-21	1	1	1	1	1	1	1	1	1	1	1	1
Off-Site (3)		MW-1	1	1		1				1		1		
		MW-2	1	1	1	1	1	1	1	1	1	1	1	1
		TMW-22	1	1	1	1	1	1	1	1	1	1	1	1
Off-Site (5)		TMW-24	1	1	1	1	1	1	1	1	1	1	1	1
		TMW-25	1	1	1	1	1	1	1	1	1	1	1	1
AOC-6 (4)		GW-1	1	1	1	1	1	1	1	1	1	1	1	1
Total:			27	27	9	16	10	9	16	2	18	0	7	

DUPS : 2 2 1 1 1 1 1 1 1 1 1 1 1 0

PFAS DUP = DUP-1 = TMW-6
 TMW-10 = DUP-2 (ETPH, VOCs, ~~PAHs~~)
~~TMW-11 = DUP-3 (ETPH, VOCs, PAHs)~~
 TMW-9 = DUP-4 (ETPH, ~~VOCs~~, SVOCs, RSR Metals, PCBs)
 TMW-12 = DUP-3 (VOCs, 1,4-Dioxane)

TMW-4 = DUP-5 (RSR Metals)

8
 + 12
 + 2

 6

(28) (21)
 (7)

Tighe&Bond

APPENDIX E



Thursday, May 04, 2023

Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCN92786
Sample ID#s: CN92786 - CN92798

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 04, 2023

SDG I.D.: GCN92786

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-1(4-5)	CN92786	SOIL
B-2(4-5)	CN92787	SOIL
B-94 (3-5)	CN92788	SOIL
B-95 (3-5)	CN92789	SOIL
B-96 (3-5)	CN92790	SOIL
B-97 (3-5)	CN92791	SOIL
B-112 (0-2)	CN92792	SOIL
B-113 (2-4)	CN92793	SOIL
B-114 (0-2)	CN92794	SOIL
B-98 (3-5)	CN92795	SOIL
B-13 (8-10)	CN92796	SOIL
TB042723L	CN92797	SOIL
TB042723H	CN92798	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

04/27/23
04/27/23

Time

9:55
15:44

Laboratory Data

SDG ID: GCN92786
Phoenix ID: CN92786

Project ID: BRAINARD AIRPORT
Client ID: B-1(4-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/02/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/02/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	73		%	1	05/02/23	JRB	50 - 150 %
% Terphenyl (surr)	71		%	1	05/02/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromoethane	ND	0.54	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	27	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	270	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	99		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	90		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	101		%	1	04/29/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

9:45
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92787

Project ID: BRAINARD AIRPORT
 Client ID: B-2(4-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.68	0.43	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	75		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	250	65	mg/Kg	1	05/02/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/02/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	73		%	1	05/02/23	JRB	50 - 150 %
% Terphenyl (surr)	64		%	1	05/02/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	28	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	280	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	100		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	90		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	101		%	1	04/29/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	79		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	80		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	64		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

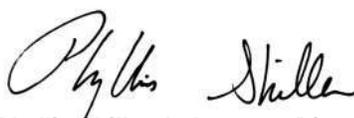
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 04/27/23 11:40
 04/27/23 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92788

Project ID: BRAINARD AIRPORT
 Client ID: B-94 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	4.79	0.44	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	77		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/02/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/02/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	101		%	1	05/02/23	JRB	50 - 150 %
% Terphenyl (surr)	102		%	1	05/02/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.71	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	35	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	35	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	350	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	4.2	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	42	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	14	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	7.1	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	99		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	90		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	100		%	1	04/29/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/01/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	05/01/23	RM	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/01/23	RM	30 - 130 %
% Terphenyl-d14	67		%	1	05/01/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

12:05
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92789

Project ID: BRAINARD AIRPORT
 Client ID: B-95 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	4.93	0.43	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	79		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	96		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/01/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.54	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichloropropane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/01/23	HM	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/01/23	HM	SW8260C
Acetone	ND	270	ug/Kg	1	05/01/23	HM	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Benzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Bromoform	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Chloroform	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/01/23	HM	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/01/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/01/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/01/23	HM	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Styrene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/01/23	HM	SW8260C
Toluene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/01/23	HM	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/01/23	HM	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	05/01/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	05/01/23	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	05/01/23	HM	70 - 130 %
% Dibromofluoromethane	95		%	1	05/01/23	HM	70 - 130 %
% Toluene-d8	96		%	1	05/01/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	80		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	85		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	70		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

12:25
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92790

Project ID: BRAINARD AIRPORT
 Client ID: B-96 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	4.74	0.38	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	83		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/R/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	146		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	145		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.61	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	30	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	300	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	3.7	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	37	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	12	12	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	6.1	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	100		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	101		%	1	04/29/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	81		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	70		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

12:50
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92791

Project ID: BRAINARD AIRPORT
 Client ID: B-97 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.01	0.38	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	89		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/R/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	124		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	121		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.51	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	25	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	250	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	5.1	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	100		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	89		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	100		%	1	04/29/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	ND	260	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	67		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

10:40
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92792

Project ID: BRAINARD AIRPORT
 Client ID: B-112 (0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	40.7	0.45	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	78		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/R/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	62		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	62		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	28	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	280	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	100		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	89		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	101		%	1	04/29/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	660	290	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	940	290	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	780	290	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	980	290	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	680	290	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	790	290	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	1200	290	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	1100	290	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	420	290	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	1200	290	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	67		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

10:50
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92793

Project ID: BRAINARD AIRPORT
 Client ID: B-113 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.55	0.46	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	77		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/R/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	63		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	61		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.58	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	29	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	290	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	99		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	89		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	100		%	1	04/29/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	79		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	81		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	66		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

11:00
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92794

Project ID: BRAINARD AIRPORT
 Client ID: B-114 (0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.46	0.38	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	92		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/R/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	05/02/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/02/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	108		%	1	05/02/23	JRB	50 - 150 %
% Terphenyl (surr)	93		%	1	05/02/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.46	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	23	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	23	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	230	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	9.2	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	12	9.2	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.2	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	9.2	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	4.6	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	102		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	95		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	101		%	1	04/29/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	ND	250	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	57		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	60		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	57		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

13:45
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92795

Project ID: BRAINARD AIRPORT
 Client ID: B-98 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.82	0.43	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	84		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/R/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	83		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	82		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/01/23	HM	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.60	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichloropropane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/01/23	HM	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/01/23	HM	SW8260C
Acetone	ND	300	ug/Kg	1	05/01/23	HM	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Benzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Bromoform	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Chloroform	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/01/23	HM	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/01/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/01/23	HM	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/01/23	HM	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Styrene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/01/23	HM	SW8260C
Toluene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/01/23	HM	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/01/23	HM	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	05/01/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	05/01/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/01/23	HM	70 - 130 %
% Dibromofluoromethane	101		%	1	05/01/23	HM	70 - 130 %
% Toluene-d8	96		%	1	05/01/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	ND	270	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	78		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	67		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

04/27/23
 04/27/23

Time

14:05
 15:44

Laboratory Data

SDG ID: GCN92786
 Phoenix ID: CN92796

Project ID: BRAINARD AIRPORT
 Client ID: B-13 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.10	0.40	mg/Kg	1	05/03/23	TH	SW6010D
Percent Solid	77		%		04/27/23	CV	SW846-%Solid
Field Extraction	Completed				04/27/23		SW5035A
Extraction of ETPH	Completed				05/01/23	B/R/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/01/23	Q/B/P	SW3546
Total Metals Digest	Completed				05/01/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	76		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	75		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.60	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	30	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	300	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	04/29/23	HM	70 - 130 %
% Bromofluorobenzene	100		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	90		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	102		%	1	04/29/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/02/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/02/23	RM	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/02/23	RM	30 - 130 %
% Terphenyl-d14	67		%	1	05/02/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date: 04/27/23
Time: 15:44

Laboratory Data

SDG ID: GCN92786
Phoenix ID: CN92797

Project ID: BRAINARD AIRPORT
Client ID: TB042723L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/27/23		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
2-Hexanone	ND	25	ug/Kg	1	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	04/29/23	HM	SW8260C
Acetone	ND	250	ug/Kg	1	04/29/23	HM	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Benzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromoform	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Chloroform	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	04/29/23	HM	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Styrene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Tetrahydrofuran (THF)	11	10	ug/Kg	1	04/29/23	HM	SW8260C
Toluene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	04/29/23	HM	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	04/29/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	04/29/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	100		%	1	04/29/23	HM	70 - 130 %
% Dibromofluoromethane	89		%	1	04/29/23	HM	70 - 130 %
% Toluene-d8	100		%	1	04/29/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 04, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

04/27/23
04/27/23

Time

15:44

Laboratory Data

SDG ID: GCN92786
Phoenix ID: CN92798

Project ID: BRAINARD AIRPORT
Client ID: TB042723H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/27/23		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	04/29/23	HM	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	04/29/23	HM	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	04/29/23	HM	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	04/29/23	HM	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	04/29/23	HM	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	04/29/23	HM	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	04/29/23	HM	SW8260C
Acetone	ND	5000	ug/Kg	50	04/29/23	HM	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	04/29/23	HM	SW8260C
Benzene	ND	200	ug/Kg	50	04/29/23	HM	SW8260C
Bromobenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	04/29/23	HM	SW8260C
Bromoform	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Bromomethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Chloroethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Chloroform	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Chloromethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	04/29/23	HM	SW8260C
Dibromomethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	04/29/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Methylene chloride	ND	500	ug/Kg	50	04/29/23	HM	SW8260C
Naphthalene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
o-Xylene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Styrene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	04/29/23	HM	SW8260C
Toluene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Total Xylenes	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	04/29/23	HM	SW8260C
Trichloroethene	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	04/29/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	04/29/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	100		%	50	04/29/23	HM	70 - 130 %
% Dibromofluoromethane (50x)	87		%	50	04/29/23	HM	70 - 130 %
% Toluene-d8 (50x)	101		%	50	04/29/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 04, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 04, 2023

QA/QC Data

SDG I.D.: GCN92786

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 675509 (mg/kg), QC Sample No: CN89328 (CN92787, CN92788, CN92789, CN92790, CN92791, CN92792, CN92793, CN92794, CN92795)													
ICP Metals - Soil													
Lead	BRL	0.33	46.0	56.9	21.2	97.0	95.7	1.3	96.2			75 - 125	35
Comment: Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 675516 (mg/kg), QC Sample No: CN92796 (CN92796)													
ICP Metals - Soil													
Lead	BRL	0.33	5.10	4.92	3.60	102	102	0.0	104			75 - 125	35
Comment: Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													



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QA/QC Report

May 04, 2023

QA/QC Data

SDG I.D.: GCN92786

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 675501 (mg/Kg), QC Sample No: CN92788 (CN92786, CN92787, CN92788, CN92789)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	101	100	1.0	101	92	9.3	60 - 120	30
% COD (surr)	38	%	98	107	8.8	104	96	8.0	50 - 150	30 s
% Terphenyl (surr)	33	%	100	103	3.0	102	97	5.0	50 - 150	30 s

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 675520 (mg/Kg), QC Sample No: CN92794 (CN92790, CN92791, CN92792, CN92793, CN92794, CN92795, CN92796)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	92	124	29.6	110	105	4.7	60 - 120	30 i
% COD (surr)	128	%	122	144	16.5	156	150	3.9	50 - 150	30 m
% Terphenyl (surr)	108	%	79	101	24.4	103	102	1.0	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 675350 (ug/kg), QC Sample No: CN92788 (CN92787, CN92788, CN92789, CN92790, CN92791, CN92792, CN92793, CN92794, CN92795, CN92796)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	85	81	4.8	75	79	5.2	40 - 140	30
Acenaphthene	ND	230	80	74	7.8	72	76	5.4	30 - 130	30
Acenaphthylene	ND	230	75	69	8.3	67	71	5.8	40 - 140	30
Anthracene	ND	230	85	78	8.6	76	81	6.4	40 - 140	30
Benz(a)anthracene	ND	230	79	74	6.5	72	76	5.4	40 - 140	30
Benzo(a)pyrene	ND	230	87	79	9.6	77	82	6.3	40 - 140	30
Benzo(b)fluoranthene	ND	230	80	74	7.8	70	77	9.5	40 - 140	30
Benzo(ghi)perylene	ND	230	86	77	11.0	75	80	6.5	40 - 140	30
Benzo(k)fluoranthene	ND	230	71	66	7.3	64	66	3.1	40 - 140	30
Chrysene	ND	230	81	75	7.7	74	77	4.0	40 - 140	30
Dibenz(a,h)anthracene	ND	230	86	79	8.5	78	82	5.0	40 - 140	30
Fluoranthene	ND	230	80	74	7.8	72	75	4.1	40 - 140	30
Fluorene	ND	230	81	75	7.7	74	78	5.3	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	86	78	9.8	77	80	3.8	40 - 140	30
Naphthalene	ND	230	86	80	7.2	72	78	8.0	40 - 140	30
Phenanthrene	ND	230	84	77	8.7	75	79	5.2	40 - 140	30
Pyrene	ND	230	80	73	9.2	72	74	2.7	30 - 130	30
% 2-Fluorobiphenyl	78	%	72	65	10.2	64	68	6.1	30 - 130	30
% Nitrobenzene-d5	84	%	81	76	6.4	70	73	4.2	30 - 130	30
% Terphenyl-d14	71	%	67	62	7.8	60	63	4.9	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Data

SDG I.D.: GCN92786

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 675577 (ug/kg), QC Sample No: CN92896 (CN92786, CN92787, CN92788, CN92790, CN92791, CN92792, CN92793, CN92794, CN92796, CN92797)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	85	84	1.2				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	96	99	3.1				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	92	86	6.7				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	92	87	5.6				70 - 130	30
1,1-Dichloroethane	ND	5.0	100	100	0.0				70 - 130	30
1,1-Dichloroethene	ND	5.0	101	103	2.0				70 - 130	30
1,1-Dichloropropene	ND	5.0	103	104	1.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	98	91	7.4				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	101	95	6.1				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	102	92	10.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	99	96	3.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	82	74	10.3				70 - 130	30
1,2-Dibromoethane	ND	5.0	93	87	6.7				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	97	91	6.4				70 - 130	30
1,2-Dichloroethane	ND	5.0	108	103	4.7				70 - 130	30
1,2-Dichloropropane	ND	5.0	96	95	1.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	100	98	2.0				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	97	92	5.3				70 - 130	30
1,3-Dichloropropane	ND	5.0	98	94	4.2				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	98	92	6.3				70 - 130	30
2,2-Dichloropropane	ND	5.0	98	99	1.0				70 - 130	30
2-Chlorotoluene	ND	5.0	96	94	2.1				70 - 130	30
2-Hexanone	ND	25	98	91	7.4				70 - 130	30
2-Isopropyltoluene	ND	5.0	96	95	1.0				70 - 130	30
4-Chlorotoluene	ND	5.0	101	97	4.0				70 - 130	30
4-Methyl-2-pentanone	ND	25	105	97	7.9				70 - 130	30
Acetone	ND	10	101	92	9.3				70 - 130	30
Acrylonitrile	ND	5.0	102	96	6.1				70 - 130	30
Benzene	ND	1.0	96	96	0.0				70 - 130	30
Bromobenzene	ND	5.0	93	90	3.3				70 - 130	30
Bromochloromethane	ND	5.0	96	92	4.3				70 - 130	30
Bromodichloromethane	ND	5.0	90	88	2.2				70 - 130	30
Bromoform	ND	5.0	69	65	6.0				70 - 130	30
Bromomethane	ND	5.0	98	100	2.0				70 - 130	30
Carbon Disulfide	ND	5.0	90	91	1.1				70 - 130	30
Carbon tetrachloride	ND	5.0	80	83	3.7				70 - 130	30
Chlorobenzene	ND	5.0	96	94	2.1				70 - 130	30
Chloroethane	ND	5.0	101	105	3.9				70 - 130	30
Chloroform	ND	5.0	101	101	0.0				70 - 130	30
Chloromethane	ND	5.0	88	90	2.2				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	94	93	1.1				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	94	91	3.2				70 - 130	30
Dibromochloromethane	ND	3.0	78	76	2.6				70 - 130	30
Dibromomethane	ND	5.0	96	92	4.3				70 - 130	30
Dichlorodifluoromethane	ND	5.0	87	91	4.5				70 - 130	30
Ethylbenzene	ND	1.0	98	97	1.0				70 - 130	30
Hexachlorobutadiene	ND	5.0	98	96	2.1				70 - 130	30
Isopropylbenzene	ND	1.0	96	97	1.0				70 - 130	30
m&p-Xylene	ND	2.0	97	96	1.0				70 - 130	30

QA/QC Data

SDG I.D.: GCN92786

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Methyl ethyl ketone	ND	5.0	100	92	8.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	100	95	5.1				70 - 130	30
Methylene chloride	ND	5.0	122	119	2.5				70 - 130	30
Naphthalene	ND	5.0	95	88	7.7				70 - 130	30
n-Butylbenzene	ND	1.0	109	106	2.8				70 - 130	30
n-Propylbenzene	ND	1.0	100	99	1.0				70 - 130	30
o-Xylene	ND	2.0	93	92	1.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	101	99	2.0				70 - 130	30
sec-Butylbenzene	ND	1.0	101	101	0.0				70 - 130	30
Styrene	ND	5.0	91	88	3.4				70 - 130	30
tert-Butylbenzene	ND	1.0	97	98	1.0				70 - 130	30
Tetrachloroethene	ND	5.0	95	94	1.1				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	102	95	7.1				70 - 130	30
Toluene	ND	1.0	96	96	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	102	103	1.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	95	92	3.2				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	87	81	7.1				70 - 130	30
Trichloroethene	ND	5.0	96	96	0.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	104	107	2.8				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	91	93	2.2				70 - 130	30
Vinyl chloride	ND	5.0	90	94	4.3				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0				70 - 130	30
% Bromofluorobenzene	101	%	102	102	0.0				70 - 130	30
% Dibromofluoromethane	91	%	91	93	2.2				70 - 130	30
% Toluene-d8	101	%	103	103	0.0				70 - 130	30

Comment:

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 675577H (ug/kg), QC Sample No: CN92896 50X (CN92798 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	104	90	14.4	66	74	11.4	70 - 130	30	m
1,1,1-Trichloroethane	ND	250	116	100	14.8	85	93	9.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	112	98	13.3	94	98	4.2	70 - 130	30	
1,1,2-Trichloroethane	ND	250	110	97	12.6	95	97	2.1	70 - 130	30	
1,1-Dichloroethane	ND	250	121	105	14.2	106	108	1.9	70 - 130	30	
1,1-Dichloroethene	ND	250	101	88	13.8	89	97	8.6	70 - 130	30	
1,1-Dichloropropene	ND	250	127	111	13.4	110	113	2.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	122	108	12.2	98	103	5.0	70 - 130	30	
1,2,3-Trichloropropane	ND	250	122	108	12.2	107	109	1.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	127	113	11.7	100	105	4.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	124	107	14.7	105	109	3.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	94	84	11.2	59	67	12.7	70 - 130	30	m
1,2-Dibromoethane	ND	250	110	97	12.6	93	96	3.2	70 - 130	30	
1,2-Dichlorobenzene	ND	250	121	105	14.2	102	106	3.8	70 - 130	30	
1,2-Dichloroethane	ND	250	128	114	11.6	112	114	1.8	70 - 130	30	
1,2-Dichloropropane	ND	250	119	102	15.4	104	108	3.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	126	108	15.4	107	112	4.6	70 - 130	30	
1,3-Dichlorobenzene	ND	250	122	107	13.1	102	106	3.8	70 - 130	30	
1,3-Dichloropropane	ND	250	118	103	13.6	103	106	2.9	70 - 130	30	
1,4-Dichlorobenzene	ND	250	124	108	13.8	103	108	4.7	70 - 130	30	
2,2-Dichloropropane	ND	250	116	102	12.8	84	93	10.2	70 - 130	30	

QA/QC Data

SDG I.D.: GCN92786

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Chlorotoluene	ND	250	122	106	14.0	104	109	4.7	70 - 130	30	
2-Hexanone	ND	1300	115	103	11.0	98	100	2.0	70 - 130	30	
2-Isopropyltoluene	ND	250	122	104	15.9	103	107	3.8	70 - 130	30	
4-Chlorotoluene	ND	250	126	110	13.6	106	111	4.6	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	120	109	9.6	105	107	1.9	70 - 130	30	
Acetone	ND	500	91	85	6.8	83	84	1.2	70 - 130	30	
Acrylonitrile	ND	250	115	105	9.1	103	104	1.0	70 - 130	30	
Benzene	ND	250	119	103	14.4	105	107	1.9	70 - 130	30	
Bromobenzene	ND	250	118	102	14.5	101	104	2.9	70 - 130	30	
Bromochloromethane	ND	250	113	101	11.2	99	102	3.0	70 - 130	30	
Bromodichloromethane	ND	250	107	94	12.9	74	83	11.5	70 - 130	30	
Bromoform	ND	250	80	69	14.8	40	46	14.0	70 - 130	30	l,m
Bromomethane	ND	250	83	74	11.5	69	74	7.0	70 - 130	30	m
Carbon Disulfide	ND	250	92	77	17.8	78	85	8.6	70 - 130	30	
Carbon tetrachloride	ND	250	93	83	11.4	51	60	16.2	70 - 130	30	m
Chlorobenzene	ND	250	120	104	14.3	104	107	2.8	70 - 130	30	
Chloroethane	ND	250	30	26	14.3	27	28	3.6	70 - 130	30	l,m
Chloroform	ND	250	122	107	13.1	105	109	3.7	70 - 130	30	
Chloromethane	ND	250	107	95	11.9	92	93	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	109	97	11.7	91	102	11.4	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	114	100	13.1	86	92	6.7	70 - 130	30	
Dibromochloromethane	ND	150	93	80	15.0	53	61	14.0	70 - 130	30	m
Dibromomethane	ND	250	117	102	13.7	100	103	3.0	70 - 130	30	
Dichlorodifluoromethane	ND	250	103	40	88.1	80	82	2.5	70 - 130	30	l,r
Ethylbenzene	ND	250	121	105	14.2	105	109	3.7	70 - 130	30	
Hexachlorobutadiene	ND	250	126	107	16.3	103	107	3.8	70 - 130	30	
Isopropylbenzene	ND	250	121	104	15.1	104	108	3.8	70 - 130	30	
m&p-Xylene	ND	250	122	105	15.0	105	109	3.7	70 - 130	30	
Methyl ethyl ketone	ND	250	112	101	10.3	105	105	0.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	116	103	11.9	100	102	2.0	70 - 130	30	
Methylene chloride	ND	250	148	103	35.9	99	102	3.0	70 - 130	30	l,r
Naphthalene	ND	250	114	101	12.1	94	99	5.2	70 - 130	30	
n-Butylbenzene	ND	250	138	119	14.8	114	121	6.0	70 - 130	30	l
n-Propylbenzene	ND	250	125	108	14.6	107	112	4.6	70 - 130	30	
o-Xylene	ND	250	116	100	14.8	101	104	2.9	70 - 130	30	
p-Isopropyltoluene	ND	250	127	110	14.3	107	113	5.5	70 - 130	30	
sec-Butylbenzene	ND	250	126	109	14.5	109	113	3.6	70 - 130	30	
Styrene	ND	250	113	98	14.2	97	100	3.0	70 - 130	30	
tert-Butylbenzene	ND	250	122	105	15.0	105	109	3.7	70 - 130	30	
Tetrachloroethene	ND	250	119	102	15.4	101	105	3.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	115	108	6.3	109	108	0.9	70 - 130	30	
Toluene	ND	250	120	103	15.2	103	107	3.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	123	109	12.1	104	106	1.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	114	100	13.1	83	90	8.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	103	93	10.2	61	69	12.3	70 - 130	30	m
Trichloroethene	ND	250	118	103	13.6	103	106	2.9	70 - 130	30	
Trichlorofluoromethane	ND	250	32	28	13.3	29	30	3.4	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	101	85	17.2	86	93	7.8	70 - 130	30	
Vinyl chloride	ND	250	107	99	7.8	93	96	3.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	100	99	1.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	101	%	102	102	0.0	103	101	2.0	70 - 130	30	
% Dibromofluoromethane	88	%	88	89	1.1	87	88	1.1	70 - 130	30	
% Toluene-d8	102	%	103	102	1.0	102	102	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN92786

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Comment:											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.											
QA/QC Batch 675680 (ug/kg), QC Sample No: CN93245 (CN92789, CN92795)											
<u>Volatiles - Soil (Low Level)</u>											
1,1,1,2-Tetrachloroethane	ND	5.0	77	89	14.5	79	80	1.3	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	84	99	16.4	95	97	2.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	85	95	11.1	114	124	8.4	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	81	93	13.8	85	83	2.4	70 - 130	30	
1,1-Dichloroethane	ND	5.0	86	129	40.0	132	136	3.0	70 - 130	30	m,r
1,1-Dichloroethene	ND	5.0	85	100	16.2	94	100	6.2	70 - 130	30	
1,1-Dichloropropene	ND	5.0	86	101	16.0	100	98	2.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	88	99	11.8	49	38	25.3	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	84	94	11.2	120	136	12.5	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	5.0	84	97	14.4	53	44	18.6	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	83	96	14.5	108	115	6.3	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	83	91	9.2	79	74	6.5	70 - 130	30	
1,2-Dibromoethane	ND	5.0	84	95	12.3	90	90	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	84	98	15.4	90	87	3.4	70 - 130	30	
1,2-Dichloroethane	ND	5.0	87	98	11.9	95	94	1.1	70 - 130	30	
1,2-Dichloropropane	ND	5.0	82	96	15.7	92	92	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	83	96	14.5	112	119	6.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	83	97	15.6	93	93	0.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	86	97	12.0	99	104	4.9	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	84	98	15.4	94	94	0.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	83	98	16.6	83	84	1.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	86	99	14.1	114	123	7.6	70 - 130	30	
2-Hexanone	ND	25	78	84	7.4	81	82	1.2	70 - 130	30	
2-Isopropyltoluene	ND	5.0	85	97	13.2	108	110	1.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	85	99	15.2	110	117	6.2	70 - 130	30	
4-Methyl-2-pentanone	ND	25	85	93	9.0	86	84	2.4	70 - 130	30	
Acetone	ND	10	76	78	2.6	141	168	17.5	70 - 130	30	m
Acrylonitrile	ND	5.0	87	103	16.8	96	94	2.1	70 - 130	30	
Benzene	ND	1.0	85	99	15.2	99	100	1.0	70 - 130	30	
Bromobenzene	ND	5.0	87	100	13.9	114	120	5.1	70 - 130	30	
Bromochloromethane	ND	5.0	84	101	18.4	98	100	2.0	70 - 130	30	
Bromodichloromethane	ND	5.0	77	90	15.6	78	78	0.0	70 - 130	30	
Bromoform	ND	5.0	65	75	14.3	55	50	9.5	70 - 130	30	l,m
Bromomethane	ND	5.0	90	108	18.2	124	123	0.8	70 - 130	30	
Carbon Disulfide	ND	5.0	79	95	18.4	82	82	0.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	75	89	17.1	75	73	2.7	70 - 130	30	
Chlorobenzene	ND	5.0	86	99	14.1	96	97	1.0	70 - 130	30	
Chloroethane	ND	5.0	81	99	20.0	100	108	7.7	70 - 130	30	
Chloroform	ND	5.0	82	95	14.7	97	100	3.0	70 - 130	30	
Chloromethane	ND	5.0	84	99	16.4	93	98	5.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	85	101	17.2	100	102	2.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	83	97	15.6	81	78	3.8	70 - 130	30	
Dibromochloromethane	ND	3.0	74	85	13.8	72	72	0.0	70 - 130	30	
Dibromomethane	ND	5.0	87	99	12.9	90	89	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	98	115	16.0	100	101	1.0	70 - 130	30	
Ethylbenzene	ND	1.0	86	98	13.0	97	100	3.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	83	97	15.6	64	49	26.5	70 - 130	30	m

QA/QC Data

SDG I.D.: GCN92786

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Isopropylbenzene	ND	1.0	87	100	13.9	127	139	9.0	70 - 130	30	m
m&p-Xylene	ND	2.0	84	96	13.3	94	96	2.1	70 - 130	30	
Methyl ethyl ketone	ND	5.0	82	87	5.9	102	108	5.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	85	94	10.1	90	93	3.3	70 - 130	30	
Methylene chloride	ND	5.0	80	94	16.1	110	128	15.1	70 - 130	30	
Naphthalene	ND	5.0	91	102	11.4	67	55	19.7	70 - 130	30	m
n-Butylbenzene	ND	1.0	88	101	13.8	102	97	5.0	70 - 130	30	
n-Propylbenzene	ND	1.0	86	100	15.1	121	128	5.6	70 - 130	30	
o-Xylene	ND	2.0	84	96	13.3	93	92	1.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	86	100	15.1	109	109	0.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	86	100	15.1	112	112	0.0	70 - 130	30	
Styrene	ND	5.0	77	88	13.3	78	75	3.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	86	100	15.1	118	121	2.5	70 - 130	30	
Tetrachloroethene	ND	5.0	85	101	17.2	90	84	6.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	83	92	10.3	91	90	1.1	70 - 130	30	
Toluene	ND	1.0	86	101	16.0	96	95	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	63	73	14.7	69	71	2.9	70 - 130	30	l,m
trans-1,3-Dichloropropene	ND	5.0	82	96	15.7	74	68	8.5	70 - 130	30	m
trans-1,4-dichloro-2-butene	ND	5.0	77	87	12.2	68	68	0.0	70 - 130	30	m
Trichloroethene	ND	5.0	87	101	14.9	97	97	0.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	89	106	17.4	106	111	4.6	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	80	96	18.2	89	91	2.2	70 - 130	30	
Vinyl chloride	ND	5.0	92	110	17.8	108	112	3.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	97	%	101	101	0.0	99	97	2.0	70 - 130	30	
% Bromofluorobenzene	98	%	100	98	2.0	88	85	3.5	70 - 130	30	
% Dibromofluoromethane	100	%	96	96	0.0	93	95	2.1	70 - 130	30	
% Toluene-d8	96	%	101	102	1.0	99	97	2.0	70 - 130	30	

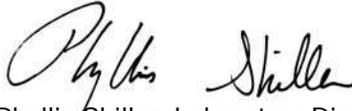
Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

- l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
- m = This parameter is outside laboratory MS/MSD specified recovery limits.
- r = This parameter is outside laboratory RPD specified recovery limits.
- s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 May 04, 2023

Thursday, May 04, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN92786 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN92792	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1100	290	1000	1000	ug/Kg
CN92792	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1100	290	1000	1000	ug/Kg
CN92798	\$8260MER	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	25	7	7	ug/Kg
CN92798	\$8260MER	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	50	40	40	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CN92786-CN92798

Sampling Date(s): 4/27/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the YPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Thursday, May 04, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 04, 2023

SDG I.D.: GCN92786

SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Lead is reported as requested on the chain of custody.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Temperature above 6C:

The samples were received in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection. Therefore no significant bias is suspected.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 675501 (Samples: CN92786, CN92787, CN92788, CN92789): ----

The blank surrogate was below criteria. A low bias is possible. (% COD (surr)(CN92788), % Terphenyl (surr)(CN92788))

QC Batch 675520 (Samples: CN92790, CN92791, CN92792, CN92793, CN92794, CN92795, CN92796): ----

One surrogate is above the upper range. No significant bias is suspected. (% COD (surr))

The LCSD recovery is above the upper range for analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Ext. Petroleum H.C. (C9-C36))

Instrument:

AU-FID1 05/02/23-1

Jeff Bucko, Chemist 05/02/23

CN92794 (1X)

The initial calibration (ET_411A1) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (502A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 05/02/23-1

Jeff Bucko, Chemist 05/02/23

CN92786 (1X), CN92787 (1X), CN92788 (1X), CN92789 (1X), CN92792 (1X)

The initial calibration (ETPH1311) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (502A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 05/02/23-1

Jeff Bucko, Chemist 05/02/23

CN92790 (1X), CN92791 (1X), CN92793 (1X), CN92795 (1X), CN92796 (1X)

The initial calibration (ETPH3141) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (502A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CN92790, CN92791, CN92793, CN92795, CN92796

Preceding CC 502A029 - % Cod (surr) 37%H (30%), % Terphenyl (surr) 34%H (30%)

Succeeding CC 502A041 - % Cod (surr) 42%H (30%), % Terphenyl (surr) 38%H (30%)

QC (Site Specific):



Environmental Laboratories, Inc.
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RCP Certification Report

May 04, 2023

SDG I.D.: GCN92786

ETPH Narration

Batch 675501 (CN92788)

CN92786, CN92787, CN92788, CN92789

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 675520 (CN92794)

CN92790, CN92791, CN92792, CN92793, CN92794, CN92795, CN92796

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(124%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: % COD (surr)(156%)

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 05/02/23 11:28 Tina Hall, Chemist 05/02/23

CN92787, CN92788, CN92789, CN92790, CN92791, CN92792, CN92793, CN92794, CN92795

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/02/23 10:38 Tina Hall, Chemist 05/02/23

CN92796

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 675509 (CN89328)



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Certification Report

May 04, 2023

SDG I.D.: GCN92786

ICP Metals Narration

CN92787, CN92788, CN92789, CN92790, CN92791, CN92792, CN92793, CN92794, CN92795
All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 675516 (CN92796)

CN92796
All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM06 05/01/23-1

Matt Richard, Chemist 05/01/23

CN92787 (1X), CN92788 (1X), CN92789 (1X), CN92790 (1X), CN92791 (1X), CN92792 (1X), CN92793 (1X), CN92794 (1X), CN92795 (1X), CN92796 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_BN_0413):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0501_03-6_BN_0413):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 675350 (CN92788)

CN92787, CN92788, CN92789, CN92790, CN92791, CN92792, CN92793, CN92794, CN92795, CN92796

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 04, 2023

SDG I.D.: GCN92786

SVOA Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 675577 (Samples: CN92786, CN92787, CN92788, CN92790, CN92791, CN92792, CN92793, CN92794, CN92796, CN92797): -----

The LCS/LCSD recovery is below the lower range. A low bias for this analyte is possible. (Bromoform)

QC Batch 675577H: -----

Several QC recoveries are below the lower range. A low bias is possible. (Bromoform)

The LCS recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Methylene chloride, n-Butylbenzene)

The LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Dichlorodifluoromethane)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Dichlorodifluoromethane, Methylene chloride)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 675680 (Samples: CN92789, CN92795): -----

Several QC recoveries are below the lower range. A low bias is possible. (Bromoform, trans-1,2-Dichloroethene)

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s) so no significant variability is suspected. (1,1-Dichloroethane)

Instrument:

CHEM14 05/01/23-1

Harry Mullin, Chemist 05/01/23

CN92789 (1X), CN92795 (1X)

Initial Calibration Evaluation (CHEM14/VT042823):

94% of target compounds met criteria.

The following compounds had %RSDs >20%: Acetone 31% (20%), Acrylonitrile 34% (20%), Chloroethane 31% (20%), Styrene 23% (20%), trans-1,2-Dichloroethene 38% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.099 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.



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RCP Certification Report

May 04, 2023

SDG I.D.: GCN92786

VOA Narration

Continuing Calibration Verification (CHEM14/0501_04-VT042823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 04/29/23-1

Harry Mullin, Chemist 04/29/23

CN92786 (1X), CN92787 (1X), CN92788 (1X), CN92790 (1X), CN92791 (1X), CN92792 (1X), CN92793 (1X), CN92794 (1X), CN92796 (1X),
CN92797 (1X), CN92798 (50X)

Initial Calibration Evaluation (CHEM26/VT-042523):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.080 (0.1),
Tetrachloroethene 0.170 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0429_04-VT-042523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Methylene chloride 32%H (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 675577 (CN92896)

CHEM26 4/29/2023-1

CN92786(1X), CN92787(1X), CN92788(1X), CN92790(1X), CN92791(1X), CN92792(1X), CN92793(1X), CN92794(1X), CN92796(1X),
CN92797(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Bromoform(69%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromoform(65%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-
160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 675577H (CN92896)

CHEM26 4/29/2023-1

CN92798(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(30%), Methylene chloride(148%), n-
Butylbenzene(138%), Trichlorofluoromethane(32%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromoform(69%), Chloroethane(26%),

Dichlorodifluoromethane(40%), Trichlorofluoromethane(28%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Dichlorodifluoromethane(88.1%), Methylene
chloride(35.9%)

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-
160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 675680 (CN93245)

CHEM14 5/1/2023-1

CN92789(1X), CN92795(1X)



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RCP Certification Report

May 04, 2023

SDG I.D.: GCN92786

VOA Narration

All LCS recoveries were within 70 - 130 with the following exceptions: Bromoform(65%), trans-1,2-Dichloroethene(63%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: 1,1-Dichloroethane(40.0%)

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 6.8C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes No
 Coolant: IPK ICE
 Temp 6.8 °C Pg 1 of 1

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 4/23/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X= (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT ETPH (DPH METHOD)	VOCs (EPA 8260/9035)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total RCRA 8 Metals	Total RFR 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) Methanol (2) H2O	GL Soil container (8) oz	GL Soil container () oz	40 ml VOA Vial () As Is () HCl	PL As Is () 250ml () 500ml () 1000ml	PL H2SO4 () 250ml () 500ml	PL HNO3 250ml	Bacteria Bottle within	Bacteria Bottle as is	Hold	
92786	B-1(4-5)	S	4/23/23	0955	X	X									3	1										
92787	B-2(4-5)	S	4/23/23	0945	X	X		X							3	1										
92788	B-94(3-5)	S	4/23/23	1140	X	X		X							3	1										
92789	B-95(3-5)	S	4/23/23	1205	X	X		X							3	1										
92790	B-96(3-5)	S	4/23/23	1225	X	X		X							3	1										
92791	B-97(3-5)	S	4/23/23	1250	X	X		X							3	1										
92792	B-112(0-2)	S	4/23/23	1040	X	X		X							3	1										
92793	B-113(2-4)	S	4/23/23	1050	X	X		X							3	1										
92794	B-114(0-2)	S	4/23/23	1160	X	X		X							3	1										
92795	B-98(3-5)	S	4/23/23	1345	X	X		X							3	1										
92796	B-13(2-0)	S	4/23/23	1405	X	X		X							3	1										
92797	TB642723L					X																				

Relinquished by: [Signature]
Asium

Accepted by: Phoenix Labs Lablog
[Signature]

Date: 4/23/23 Time: 1530
LIBBY 1544

- RI (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

- CT RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

- MA MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

- Data Format Excel PDF GIS/Key EQUIS Other-Envirodata
 Data Package Tier II Checklist Full Data Package* Phoenix Std Report Other

Comments, Special Requirements or Regulations:

Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

State where samples were collected: CT

* SURCHARGE APPLIES

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.



Tuesday, May 09, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCN93805
Sample ID#s: CN93805 - CN93825

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 09, 2023

SDG I.D.: GCN93805

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-3 (0-2)	CN93805	SOIL
B-5 (8-10)	CN93806	SOIL
B-6 (8-10)	CN93807	SOIL
B-7 (8-10)	CN93808	SOIL
B-8 (8-10)	CN93809	SOIL
B-9 (6-8)	CN93810	SOIL
B-10 (8-10)	CN93811	SOIL
DUP-1	CN93812	SOIL
B-14 (8-10)	CN93813	SOIL
B-15 (8-10)	CN93814	SOIL
B-16 (8-10)	CN93815	SOIL
B-17 (7-9)	CN93816	SOIL
B-18 (8-10)	CN93817	SOIL
B-82 (1-3)	CN93818	SOIL
B-83 (0.5-2.5)	CN93819	SOIL
B-93 (1-2.5)	CN93820	SOIL
B-99 (5-6)	CN93821	SOIL
B-100 (8-10)	CN93822	SOIL
B-131 (1-3)	CN93823	SOIL
TB042823L	CN93824	SOIL
TB042823H	CN93825	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

9:00
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93805

Project ID: BRAINARD AIRPORT
 Client ID: B-3 (0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	05/03/23	IE	SW6010D
Arsenic	2.27	0.71	mg/Kg	1	05/03/23	IE	SW6010D
Barium	32.2	0.35	mg/Kg	1	05/03/23	IE	SW6010D
Beryllium	< 0.28	0.28	mg/Kg	1	05/03/23	IE	SW6010D
Cadmium	1.71	0.35	mg/Kg	1	05/03/23	IE	SW6010D
Chromium	13.2	0.35	mg/Kg	1	05/03/23	IE	SW6010D
Copper	13.1	0.7	mg/kg	1	05/03/23	IE	SW6010D
Mercury	0.05	0.03	mg/Kg	2	05/02/23	PM	SW7471B
Nickel	12.4	0.35	mg/Kg	1	05/03/23	IE	SW6010D
Lead	19.4	0.35	mg/Kg	1	05/03/23	IE	SW6010D
Antimony	< 3.5	3.5	mg/Kg	1	05/03/23	IE	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/03/23	IE	SW6010D
Thallium	< 3.2	3.2	mg/Kg	1	05/03/23	IE	SW6010D
Vanadium	16.0	0.35	mg/Kg	1	05/03/23	IE	SW6010D
Zinc	126	0.7	mg/Kg	1	05/03/23	IE	SW6010D
Percent Solid	92		%		04/28/23	CV	SW846-%Solid
Field Extraction	Completed				04/28/23		SW5035A
Mercury Digestion	Completed				05/01/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546
Soil Extraction for SVOA	Completed				05/02/23	B/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	93		%	1	05/03/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	93		%	1	05/03/23	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromoethane	ND	0.53	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	27	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	270	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	91		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	102		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	96		%	1	04/30/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrophenol	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitroaniline	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitrophenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
3-Nitroaniline	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitroaniline	ND	570	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Acetophenone	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Aniline	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
Anthracene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Benzoic acid	ND	710	ug/Kg	1	05/03/23	KCA	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
Carbazole	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
Chrysene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-butylphthalate	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Fluoranthene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Fluorene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Isophorone	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachloronitrobenzene	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachlorophenol	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
Phenanthrene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Phenol	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Pyrene	ND	250	ug/Kg	1	05/03/23	KCA	SW8270D
Pyridine	ND	360	ug/Kg	1	05/03/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	96		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	76		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorophenol	68		%	1	05/03/23	KCA	30 - 130 %
% Nitrobenzene-d5	76		%	1	05/03/23	KCA	30 - 130 %
% Phenol-d5	75		%	1	05/03/23	KCA	30 - 130 %
% Terphenyl-d14	78		%	1	05/03/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date Time
 04/28/23 8:30
 04/28/23 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93806

Project ID: BRAINARD AIRPORT
 Client ID: B-5 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.29	0.40	mg/Kg	1	05/03/23	IE	SW6010D
Percent Solid	74		%		04/28/23	CV	SW846-%Solid
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/03/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	82		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	84		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	1.1	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloropropane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	54	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	54	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	540	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Bromochloromethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	6.5	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Isopropylbenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	65	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	22	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	22	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	22	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	22	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	22	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	91		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	100		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	96		%	1	04/30/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Anthracene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Chrysene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Fluorene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
Pyrene	ND	310	ug/Kg	1	05/04/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	56		%	1	05/04/23	KCA	30 - 130 %
% Nitrobenzene-d5	56		%	1	05/04/23	KCA	30 - 130 %
% Terphenyl-d14	56		%	1	05/04/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date Time

04/28/23 8:10
 04/28/23 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93807

Project ID: BRAINARD AIRPORT
 Client ID: B-6 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	9.84	0.38	mg/Kg	1	05/03/23	IE	SW6010D
Percent Solid	91		%		04/28/23	CV	SW846-%Solid
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/03/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	94		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	89		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.45	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloropropane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	22	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	22	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	220	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromochloromethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	2.7	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Isopropylbenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	27	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.9	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	8.9	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	8.9	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	8.9	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	8.9	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	4.5	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	92		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	103		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	95		%	1	04/30/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Anthracene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Chrysene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Fluoranthene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Fluorene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Phenanthrene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
Pyrene	ND	250	ug/Kg	1	05/04/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	56		%	1	05/04/23	RM	30 - 130 %
% Nitrobenzene-d5	57		%	1	05/04/23	RM	30 - 130 %
% Terphenyl-d14	50		%	1	05/04/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

8:00
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93808

Project ID: BRAINARD AIRPORT
 Client ID: B-7 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	77		%		04/28/23	CV	SW846-%Solid
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	87		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	86		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromoethane	ND	0.71	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	36	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	36	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	360	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Bromochloromethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	4.3	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Isopropylbenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	43	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	14	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	7.1	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	93		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	99		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	96		%	1	04/30/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

11:45
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93809

Project ID: BRAINARD AIRPORT
 Client ID: B-8 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		04/28/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/03/23	B/MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	68	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	85		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	05/03/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Acenaphthene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Anthracene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Chrysene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Fluoranthene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Fluorene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Naphthalene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Pyrene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	52		%	1	05/04/23	KCA	30 - 130 %
% Nitrobenzene-d5	51		%	1	05/04/23	KCA	30 - 130 %
% Terphenyl-d14	50		%	1	05/04/23	KCA	30 - 130 %

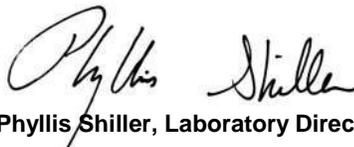
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/28/23
04/28/23

Time

12:30
15:58

Laboratory Data

SDG ID: GCN93805
Phoenix ID: CN93810

Project ID: BRAINARD AIRPORT
Client ID: B-9 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		04/28/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/03/23	B/MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	05/04/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/04/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	82		%	1	05/04/23	JRB	50 - 150 %
% Terphenyl (surr)	81		%	1	05/04/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Anthracene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Chrysene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Fluoranthene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Fluorene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Naphthalene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
Pyrene	ND	240	ug/Kg	1	05/04/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	57		%	1	05/04/23	RM	30 - 130 %
% Nitrobenzene-d5	58		%	1	05/04/23	RM	30 - 130 %
% Terphenyl-d14	52		%	1	05/04/23	RM	30 - 130 %

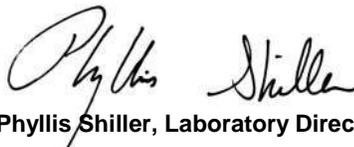
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

10:25
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93811

Project ID: BRAINARD AIRPORT
 Client ID: B-10 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	05/04/23	CPP	SW6010D
Arsenic	2.26	0.90	mg/Kg	1	05/04/23	CPP	SW6010D
Barium	51.7	0.45	mg/Kg	1	05/04/23	CPP	SW6010D
Beryllium	< 0.36	0.36	mg/Kg	1	05/04/23	CPP	SW6010D
Cadmium	< 0.45	0.45	mg/Kg	1	05/04/23	CPP	SW6010D
Chromium	19.1	0.45	mg/Kg	1	05/04/23	CPP	SW6010D
Copper	15.1	0.9	mg/kg	1	05/04/23	CPP	SW6010D
Mercury	< 0.01	0.01	mg/Kg	2	05/02/23	PM	SW7471B
Nickel	17.5	0.45	mg/Kg	1	05/04/23	CPP	SW6010D
Lead	4.15	0.45	mg/Kg	1	05/04/23	CPP	SW6010D
Antimony	< 4.5	4.5	mg/Kg	1	05/04/23	CPP	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	05/04/23	CPP	SW6010D
Thallium	< 4.1	4.1	mg/Kg	1	05/04/23	CPP	SW6010D
Vanadium	22.4	0.45	mg/Kg	1	05/04/23	CPP	SW6010D
Zinc	42.5	0.9	mg/Kg	1	05/04/23	CPP	SW6010D
Percent Solid	74		%		04/28/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/02/23	C/F	SW3545A
Field Extraction	Completed				04/28/23		SW5035A
Mercury Digestion	Completed				05/01/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546
Soil Extraction for SVOA	Completed				05/02/23	B/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	67	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	96		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	96		%	1	05/03/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1221	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1232	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1242	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1248	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1254	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1260	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1262	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1268	ND	440	ug/Kg	10	05/03/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	59		%	10	05/03/23	SC	30 - 150 %
% DCBP (Confirmation)	60		%	10	05/03/23	SC	30 - 150 %
% TCMX	57		%	10	05/03/23	SC	30 - 150 %
% TCMX (Confirmation)	54		%	10	05/03/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloropropene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.72	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloroethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloropropane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichloropropane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
2,2-Dichloropropane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
2-Chlorotoluene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
2-Hexanone	ND	36	ug/Kg	1	05/02/23	HM	SW8260C
2-Isopropyltoluene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
4-Chlorotoluene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	36	ug/Kg	1	05/02/23	HM	SW8260C
Acetone	ND	360	ug/Kg	1	05/02/23	HM	SW8260C
Acrylonitrile	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Benzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromobenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromodichloromethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromoform	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromomethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Carbon Disulfide	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Carbon tetrachloride	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Chlorobenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloroethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloroform	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloromethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Dibromochloromethane	ND	4.3	ug/Kg	1	05/02/23	HM	SW8260C
Dibromomethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Ethylbenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Hexachlorobutadiene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Isopropylbenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
m&p-Xylene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Methyl Ethyl Ketone	ND	43	ug/Kg	1	05/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	05/02/23	HM	SW8260C
Methylene chloride	ND	14	ug/Kg	1	05/02/23	HM	SW8260C
Naphthalene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
n-Butylbenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
n-Propylbenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
o-Xylene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
p-Isopropyltoluene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
sec-Butylbenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Styrene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
tert-Butylbenzene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Tetrachloroethene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	05/02/23	HM	SW8260C
Toluene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Total Xylenes	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	05/02/23	HM	SW8260C
Trichloroethene	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorofluoromethane	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	05/02/23	HM	SW8260C
Vinyl chloride	ND	7.2	ug/Kg	1	05/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/02/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/02/23	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	05/02/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/02/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dichlorophenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dimethylphenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrophenol	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chloronaphthalene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chlorophenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylnaphthalene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitroaniline	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitrophenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
3-Nitroaniline	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloroaniline	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitroaniline	ND	710	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitrophenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Acetophenone	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Aniline	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
Anthracene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Benzoic acid	ND	890	ug/Kg	1	05/03/23	KCA	SW8270D
Benzyl butyl phthalate	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
Carbazole	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
Chrysene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenzofuran	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Diethyl phthalate	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-butylphthalate	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-octylphthalate	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Fluorene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobenzene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobutadiene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachloroethane	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Isophorone	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Nitrobenzene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachloronitrobenzene	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachlorophenol	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Phenol	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Pyrene	ND	310	ug/Kg	1	05/03/23	KCA	SW8270D
Pyridine	ND	450	ug/Kg	1	05/03/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	70		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorophenol	64		%	1	05/03/23	KCA	30 - 130 %
% Nitrobenzene-d5	76		%	1	05/03/23	KCA	30 - 130 %
% Phenol-d5	65		%	1	05/03/23	KCA	30 - 130 %
% Terphenyl-d14	53		%	1	05/03/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

10:26
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93812

Project ID: BRAINARD AIRPORT
 Client ID: DUP-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.48	0.48	mg/Kg	1	05/04/23	CPP	SW6010D
Arsenic	2.04	0.96	mg/Kg	1	05/04/23	CPP	SW6010D
Barium	52.9	0.48	mg/Kg	1	05/04/23	CPP	SW6010D
Beryllium	< 0.39	0.39	mg/Kg	1	05/04/23	CPP	SW6010D
Cadmium	< 0.48	0.48	mg/Kg	1	05/04/23	CPP	SW6010D
Chromium	18.6	0.48	mg/Kg	1	05/04/23	CPP	SW6010D
Copper	15.0	1.0	mg/kg	1	05/04/23	CPP	SW6010D
Mercury	< 0.01	0.01	mg/Kg	2	05/02/23	PM	SW7471B
Nickel	17.3	0.48	mg/Kg	1	05/04/23	CPP	SW6010D
Lead	4.00	0.48	mg/Kg	1	05/04/23	CPP	SW6010D
Antimony	< 4.8	4.8	mg/Kg	1	05/04/23	CPP	SW6010D
Selenium	< 1.9	1.9	mg/Kg	1	05/04/23	CPP	SW6010D
Thallium	< 4.3	4.3	mg/Kg	1	05/04/23	CPP	SW6010D
Vanadium	21.8	0.48	mg/Kg	1	05/04/23	CPP	SW6010D
Zinc	41.2	1.0	mg/Kg	1	05/04/23	CPP	SW6010D
Percent Solid	71		%		04/28/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/02/23	C/F	SW3545A
Field Extraction	Completed				04/28/23		SW5035A
Mercury Digestion	Completed				05/01/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546
Soil Extraction for SVOA	Completed				05/03/23	B/R/F	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	91		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	91		%	1	05/03/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1221	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1232	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1242	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1248	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1254	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1260	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1262	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1268	ND	470	ug/Kg	10	05/03/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	60		%	10	05/03/23	SC	30 - 150 %
% DCBP (Confirmation)	60		%	10	05/03/23	SC	30 - 150 %
% TCMX	60		%	10	05/03/23	SC	30 - 150 %
% TCMX (Confirmation)	57		%	10	05/03/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	17	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromoethane	ND	2.9	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloropropane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	140	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	140	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	1400	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	17	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Isopropylbenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	170	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	58	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	58	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	58	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	58	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	58	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	29	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	93		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	98		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	96		%	1	04/30/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2,4-Dichlorophenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2,4-Dimethylphenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2,4-Dinitrophenol	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2-Chloronaphthalene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2-Chlorophenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2-Methylnaphthalene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
2-Nitroaniline	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
2-Nitrophenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
3-Nitroaniline	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
4-Chloroaniline	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
4-Nitroaniline	ND	730	ug/Kg	1	05/04/23	KCA	SW8270D
4-Nitrophenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Acenaphthene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Acetophenone	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Aniline	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
Anthracene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Benzoic acid	ND	910	ug/Kg	1	05/04/23	KCA	SW8270D
Benzyl butyl phthalate	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
Carbazole	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
Chrysene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Dibenzofuran	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Diethyl phthalate	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Di-n-butylphthalate	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
Di-n-octylphthalate	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Fluoranthene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Fluorene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Hexachlorobenzene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Hexachlorobutadiene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Hexachloroethane	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Isophorone	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Naphthalene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Nitrobenzene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/04/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/04/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
Pentachloronitrobenzene	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
Pentachlorophenol	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
Phenanthrene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Phenol	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Pyrene	ND	320	ug/Kg	1	05/04/23	KCA	SW8270D
Pyridine	ND	450	ug/Kg	1	05/04/23	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	44		%	1	05/04/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	37		%	1	05/04/23	KCA	30 - 130 %
% 2-Fluorophenol	40		%	1	05/04/23	KCA	30 - 130 %
% Nitrobenzene-d5	37		%	1	05/04/23	KCA	30 - 130 %
% Phenol-d5	45		%	1	05/04/23	KCA	30 - 130 %
% Terphenyl-d14	38		%	1	05/04/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/28/23
04/28/23

Time

12:45
15:58

Laboratory Data

SDG ID: GCN93805
Phoenix ID: CN93813

Project ID: BRAINARD AIRPORT
Client ID: B-14 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		04/28/23	CV	SW846-%Solid
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	107		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	107		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromoethane	ND	0.54	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	27	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	270	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	93		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	100		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	96		%	1	04/30/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

14:30
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93814

Project ID: BRAINARD AIRPORT
 Client ID: B-15 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	8.38	0.35	mg/Kg	1	05/04/23	CPP	SW6010D
Percent Solid	89		%		04/28/23	CV	SW846-%Solid
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/03/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	138		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	101		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.55	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	28	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	280	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	93		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	101		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	96		%	1	04/30/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Anthracene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Chrysene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Fluorene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
Pyrene	ND	260	ug/Kg	1	05/04/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	62		%	1	05/04/23	RM	30 - 130 %
% Nitrobenzene-d5	61		%	1	05/04/23	RM	30 - 130 %
% Terphenyl-d14	60		%	1	05/04/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date Time

04/28/23 14:20
 04/28/23 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93815

Project ID: BRAINARD AIRPORT
 Client ID: B-16 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	19.3	0.42	mg/Kg	1	05/04/23	CPP	SW6010D
Percent Solid	81		%		04/28/23	CV	SW846-%Solid
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/03/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	135		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	97		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.52	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	26	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	260	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	95		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	100		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	96		%	1	04/30/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Anthracene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(a)pyrene	350	280	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(b)fluoranthene	380	280	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Chrysene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Fluoranthene	340	280	ug/Kg	1	05/04/23	RM	SW8270D
Fluorene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/04/23	RM	SW8270D
Pyrene	360	280	ug/Kg	1	05/04/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	62		%	1	05/04/23	RM	30 - 130 %
% Nitrobenzene-d5	54		%	1	05/04/23	RM	30 - 130 %
% Terphenyl-d14	58		%	1	05/04/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date Time
04/28/23 14:10
04/28/23 15:58

Laboratory Data

SDG ID: GCN93805
Phoenix ID: CN93816

Project ID: BRAINARD AIRPORT
Client ID: B-17 (7-9)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		04/28/23	CV	SW846-%Solid
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	129		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	05/03/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	04/30/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dibromoethane	ND	0.53	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
2-Hexanone	ND	27	ug/Kg	1	04/30/23	HM	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	04/30/23	HM	SW8260C
Acetone	ND	270	ug/Kg	1	04/30/23	HM	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Benzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromoform	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Chloroform	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	04/30/23	HM	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	04/30/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Styrene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Toluene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	04/30/23	HM	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	04/30/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	04/30/23	HM	70 - 130 %
% Bromofluorobenzene	90		%	1	04/30/23	HM	70 - 130 %
% Dibromofluoromethane	100		%	1	04/30/23	HM	70 - 130 %
% Toluene-d8	95		%	1	04/30/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/28/23
04/28/23

Time

14:00
15:58

Laboratory Data

SDG ID: GCN93805
Phoenix ID: CN93817

Project ID: BRAINARD AIRPORT
Client ID: B-18 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		04/28/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/02/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/03/23	B/MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	103		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	73		%	1	05/03/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/04/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	49		%	1	05/04/23	RM	30 - 130 %
% Nitrobenzene-d5	50		%	1	05/04/23	RM	30 - 130 %
% Terphenyl-d14	49		%	1	05/04/23	RM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

11:20
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93818

Project ID: BRAINARD AIRPORT
 Client ID: B-82 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/04/23	CPP	SW6010D
Arsenic	2.65	0.78	mg/Kg	1	05/04/23	CPP	SW6010D
Barium	51.7	0.39	mg/Kg	1	05/04/23	CPP	SW6010D
Beryllium	0.33	0.31	mg/Kg	1	05/04/23	CPP	SW6010D
Cadmium	< 0.39	0.39	mg/Kg	1	05/04/23	CPP	SW6010D
Chromium	19.8	0.39	mg/Kg	1	05/04/23	CPP	SW6010D
Copper	18.1	0.8	mg/kg	1	05/04/23	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/02/23	PM	SW7471B
Nickel	18.2	0.39	mg/Kg	1	05/04/23	CPP	SW6010D
Lead	9.81	0.39	mg/Kg	1	05/04/23	CPP	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/04/23	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/04/23	CPP	SW6010D
Thallium	< 3.5	3.5	mg/Kg	1	05/04/23	CPP	SW6010D
Vanadium	23.8	0.39	mg/Kg	1	05/04/23	CPP	SW6010D
Zinc	47.0	0.8	mg/Kg	1	05/04/23	CPP	SW6010D
Percent Solid	86		%		04/28/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/02/23	C/F	SW3545A
Field Extraction	Completed				04/28/23		SW5035A
Mercury Digestion	Completed				05/01/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/02/23	B/M	SW3546
Soil Extraction for SVOA	Completed				05/02/23	B/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	107		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	77		%	1	05/03/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	62		%	10	05/03/23	SC	30 - 150 %
% DCBP (Confirmation)	62		%	10	05/03/23	SC	30 - 150 %
% TCMX	61		%	10	05/03/23	SC	30 - 150 %
% TCMX (Confirmation)	57		%	10	05/03/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.53	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/02/23	HM	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/02/23	HM	SW8260C
Acetone	ND	270	ug/Kg	1	05/02/23	HM	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Benzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Bromoform	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Chloroform	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/02/23	HM	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/02/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/02/23	HM	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Styrene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/02/23	HM	SW8260C
Toluene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/02/23	HM	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/02/23	HM	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	05/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/02/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/02/23	HM	70 - 130 %
% Dibromofluoromethane	95		%	1	05/02/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/02/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrophenol	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitroaniline	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
3-Nitroaniline	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Acetophenone	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Aniline	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Anthracene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Benzoic acid	ND	750	ug/Kg	1	05/03/23	KCA	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Carbazole	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Chrysene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-butylphthalate	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Fluorene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Isophorone	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachloronitrobenzene	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Phenol	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Pyrene	ND	260	ug/Kg	1	05/03/23	KCA	SW8270D
Pyridine	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	70		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorophenol	61		%	1	05/03/23	KCA	30 - 130 %
% Nitrobenzene-d5	71		%	1	05/03/23	KCA	30 - 130 %
% Phenol-d5	71		%	1	05/03/23	KCA	30 - 130 %
% Terphenyl-d14	70		%	1	05/03/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

9:40
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93819

Project ID: BRAINARD AIRPORT
 Client ID: B-83 (0.5-2.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Arsenic	2.26	0.82	mg/Kg	1	05/04/23	CPP	SW6010D
Barium	58.6	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Beryllium	< 0.33	0.33	mg/Kg	1	05/04/23	CPP	SW6010D
Cadmium	< 0.41	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Chromium	18.4	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Copper	17.5	0.8	mg/kg	1	05/04/23	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	05/02/23	PM	SW7471B
Nickel	18.8	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Lead	6.68	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	05/04/23	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/04/23	CPP	SW6010D
Thallium	< 3.7	3.7	mg/Kg	1	05/04/23	CPP	SW6010D
Vanadium	22.3	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Zinc	44.7	0.8	mg/Kg	1	05/04/23	CPP	SW6010D
Percent Solid	87		%		04/28/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/02/23	C/F	SW3545A
Field Extraction	Completed				04/28/23		SW5035A
Mercury Digestion	Completed				05/01/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/02/23	B/M	SW3546
Soil Extraction for SVOA	Completed				05/02/23	B/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	92		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	92		%	1	05/03/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/03/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	72		%	10	05/03/23	SC	30 - 150 %
% DCBP (Confirmation)	75		%	10	05/03/23	SC	30 - 150 %
% TCMX	71		%	10	05/03/23	SC	30 - 150 %
% TCMX (Confirmation)	68		%	10	05/03/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/01/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/01/23	HM	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/01/23	HM	SW8260C
Acetone	ND	260	ug/Kg	1	05/01/23	HM	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Benzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Bromoform	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Chloroform	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/01/23	HM	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/01/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/01/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/01/23	HM	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Styrene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/01/23	HM	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/01/23	HM	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/01/23	HM	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/01/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/01/23	HM	70 - 130 %
% Bromofluorobenzene	91		%	1	05/01/23	HM	70 - 130 %
% Dibromofluoromethane	100		%	1	05/01/23	HM	70 - 130 %
% Toluene-d8	95		%	1	05/01/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrophenol	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitroaniline	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
3-Nitroaniline	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Acetophenone	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Aniline	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzoic acid	ND	760	ug/Kg	1	05/03/23	KCA	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Carbazole	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Chrysene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-butylphthalate	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Fluoranthene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Isophorone	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachloronitrobenzene	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Phenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Pyrene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Pyridine	ND	380	ug/Kg	1	05/03/23	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	47		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorophenol	53		%	1	05/03/23	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	1	05/03/23	KCA	30 - 130 %
% Phenol-d5	61		%	1	05/03/23	KCA	30 - 130 %
% Terphenyl-d14	69		%	1	05/03/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

10:50
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93820

Project ID: BRAINARD AIRPORT
 Client ID: B-93 (1-2.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Arsenic	3.37	0.82	mg/Kg	1	05/04/23	CPP	SW6010D
Barium	57.0	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Beryllium	0.35	0.33	mg/Kg	1	05/04/23	CPP	SW6010D
Cadmium	< 0.41	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Chromium	20.3	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Copper	30.7	0.8	mg/kg	1	05/04/23	CPP	SW6010D
Mercury	0.09	0.03	mg/Kg	2	05/02/23	PM	SW7471B
Nickel	18.4	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Lead	39.1	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	05/04/23	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/04/23	CPP	SW6010D
Thallium	< 3.7	3.7	mg/Kg	1	05/04/23	CPP	SW6010D
Vanadium	24.5	0.41	mg/Kg	1	05/04/23	CPP	SW6010D
Zinc	75.2	0.8	mg/Kg	1	05/04/23	CPP	SW6010D
Percent Solid	84		%		04/28/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/02/23	C/F	SW3545A
Field Extraction	Completed				04/28/23		SW5035A
Mercury Digestion	Completed				05/01/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/02/23	B/M	SW3546
Soil Extraction for SVOA	Completed				05/02/23	B/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	83		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	82		%	1	05/03/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	05/03/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	79		%	10	05/03/23	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	05/03/23	SC	30 - 150 %
% TCMX	82		%	10	05/03/23	SC	30 - 150 %
% TCMX (Confirmation)	77		%	10	05/03/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/02/23	HM	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/02/23	HM	SW8260C
Acetone	ND	260	ug/Kg	1	05/02/23	HM	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Benzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromoform	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloroform	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/02/23	HM	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Styrene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/02/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/02/23	HM	70 - 130 %
% Dibromofluoromethane	97		%	1	05/02/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/02/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrophenol	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitroaniline	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
3-Nitroaniline	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Acetophenone	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Aniline	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benz(a)anthracene	390	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(a)pyrene	460	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(b)fluoranthene	540	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(ghi)perylene	310	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Benzoic acid	ND	780	ug/Kg	1	05/03/23	KCA	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
Carbazole	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
Chrysene	420	270	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-butylphthalate	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Fluoranthene	640	270	ug/Kg	1	05/03/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	300	270	ug/Kg	1	05/03/23	KCA	SW8270D
Isophorone	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachloronitrobenzene	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Phenol	ND	270	ug/Kg	1	05/03/23	KCA	SW8270D
Pyrene	650	270	ug/Kg	1	05/03/23	KCA	SW8270D
Pyridine	ND	390	ug/Kg	1	05/03/23	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	92		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	79		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorophenol	73		%	1	05/03/23	KCA	30 - 130 %
% Nitrobenzene-d5	80		%	1	05/03/23	KCA	30 - 130 %
% Phenol-d5	80		%	1	05/03/23	KCA	30 - 130 %
% Terphenyl-d14	85		%	1	05/03/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/28/23
04/28/23

Time

10:05
15:58

Laboratory Data

SDG ID: GCN93805
Phoenix ID: CN93821

Project ID: BRAINARD AIRPORT
Client ID: B-99 (5-6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		04/28/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/02/23	C/M	SW3545A
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/M	SW3546
Soil Extraction for SVOA	Completed				05/02/23	B/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	116		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	119		%	1	05/03/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	410	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	05/03/23	SC	SW8082A

QA/QC Surrogates

% DCBP	48		%	10	05/03/23	SC	30 - 150 %
% DCBP (Confirmation)	49		%	10	05/03/23	SC	30 - 150 %
% TCMX	52		%	10	05/03/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	48		%	10	05/03/23	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/02/23	HM	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/02/23	HM	SW8260C
Acetone	ND	260	ug/Kg	1	05/02/23	HM	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Benzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromoform	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloroform	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/02/23	HM	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Styrene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/02/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/02/23	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	05/02/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/02/23	HM	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	78	ug/kg	1	05/02/23	HM	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dichlorophenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dimethylphenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrophenol	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chloronaphthalene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chlorophenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylnaphthalene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitroaniline	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitrophenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
3-Nitroaniline	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloroaniline	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitroaniline	ND	650	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitrophenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Acetophenone	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Aniline	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
Anthracene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Benzoic acid	ND	810	ug/Kg	1	05/03/23	KCA	SW8270D
Benzyl butyl phthalate	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
Carbazole	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
Chrysene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenzofuran	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Diethyl phthalate	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Dimethylphthalate	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-butylphthalate	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-octylphthalate	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Fluoranthene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Fluorene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobenzene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobutadiene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachloroethane	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Isophorone	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Nitrobenzene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachloronitrobenzene	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachlorophenol	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Phenol	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Pyrene	ND	280	ug/Kg	1	05/03/23	KCA	SW8270D
Pyridine	ND	410	ug/Kg	1	05/03/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorophenol	70		%	1	05/03/23	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	1	05/03/23	KCA	30 - 130 %
% Phenol-d5	75		%	1	05/03/23	KCA	30 - 130 %
% Terphenyl-d14	70		%	1	05/03/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/28/23
 04/28/23

Time

13:40
 15:58

Laboratory Data

SDG ID: GCN93805
 Phoenix ID: CN93822

Project ID: BRAINARD AIRPORT
 Client ID: B-100 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		04/28/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/02/23	C/M	SW3545A
Field Extraction	Completed				04/28/23		SW5035A
Extraction of ETPH	Completed				05/02/23	B/M	SW3546
Soil Extraction for SVOA	Completed				05/02/23	B/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	80		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	85		%	1	05/03/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	420	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1221	ND	420	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1232	ND	420	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1242	ND	420	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1248	ND	420	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1254	ND	420	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1260	ND	420	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1262	ND	420	ug/Kg	10	05/03/23	SC	SW8082A
PCB-1268	ND	420	ug/Kg	10	05/03/23	SC	SW8082A

QA/QC Surrogates

% DCBP	52		%	10	05/03/23	SC	30 - 150 %
% DCBP (Confirmation)	51		%	10	05/03/23	SC	30 - 150 %
% TCMX	50		%	10	05/03/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	45		%	10	05/03/23	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloropropene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.64	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloroethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloropropane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichloropropane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
2,2-Dichloropropane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
2-Chlorotoluene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
2-Hexanone	ND	32	ug/Kg	1	05/02/23	HM	SW8260C
2-Isopropyltoluene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
4-Chlorotoluene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	05/02/23	HM	SW8260C
Acetone	ND	320	ug/Kg	1	05/02/23	HM	SW8260C
Acrylonitrile	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Benzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Bromobenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Bromochloromethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Bromodichloromethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Bromoform	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Bromomethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Carbon Disulfide	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Carbon tetrachloride	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Chlorobenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Chloroethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Chloroform	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Chloromethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/02/23	HM	SW8260C
Dibromomethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Ethylbenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Hexachlorobutadiene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
m&p-Xylene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/02/23	HM	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/02/23	HM	SW8260C
Naphthalene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
n-Butylbenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
n-Propylbenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
o-Xylene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
p-Isopropyltoluene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
sec-Butylbenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Styrene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
tert-Butylbenzene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Tetrachloroethene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/02/23	HM	SW8260C
Toluene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Total Xylenes	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/02/23	HM	SW8260C
Trichloroethene	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorofluoromethane	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/02/23	HM	SW8260C
Vinyl chloride	ND	6.4	ug/Kg	1	05/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/02/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/02/23	HM	70 - 130 %
% Dibromofluoromethane	98		%	1	05/02/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/02/23	HM	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	96	ug/kg	1	05/02/23	HM	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dichlorophenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dimethylphenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrophenol	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chloronaphthalene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2-Chlorophenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylnaphthalene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitroaniline	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
2-Nitrophenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
3-Nitroaniline	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chloroaniline	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitroaniline	ND	680	ug/Kg	1	05/03/23	KCA	SW8270D
4-Nitrophenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Acetophenone	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Aniline	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
Anthracene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Benzoic acid	ND	850	ug/Kg	1	05/03/23	KCA	SW8270D
Benzyl butyl phthalate	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
Carbazole	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
Chrysene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Dibenzofuran	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Diethyl phthalate	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Dimethylphthalate	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-butylphthalate	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
Di-n-octylphthalate	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobenzene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorobutadiene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Hexachloroethane	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Isophorone	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Nitrobenzene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/03/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachloronitrobenzene	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
Pentachlorophenol	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Phenol	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Pyrene	ND	300	ug/Kg	1	05/03/23	KCA	SW8270D
Pyridine	ND	420	ug/Kg	1	05/03/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	64		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	05/03/23	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	05/03/23	KCA	30 - 130 %
% Nitrobenzene-d5	64		%	1	05/03/23	KCA	30 - 130 %
% Phenol-d5	60		%	1	05/03/23	KCA	30 - 130 %
% Terphenyl-d14	51		%	1	05/03/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/28/23
04/28/23

Time

11:30
15:58

Laboratory Data

SDG ID: GCN93805
Phoenix ID: CN93823

Project ID: BRAINARD AIRPORT
Client ID: B-131 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		04/28/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/02/23	B/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	05/03/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/03/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	69		%	1	05/03/23	JRB	50 - 150 %
% Terphenyl (surr)	73		%	1	05/03/23	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/28/23
04/28/23

Time

15:58

Laboratory Data

SDG ID: GCN93805
Phoenix ID: CN93824

Project ID: BRAINARD AIRPORT
Client ID: TB042823L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/28/23		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/02/23	HM	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/02/23	HM	SW8260C
Acetone	ND	250	ug/Kg	1	05/02/23	HM	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/02/23	HM	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Tetrahydrofuran (THF)	11	10	ug/Kg	1	05/02/23	HM	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/02/23	HM	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/02/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	05/02/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97		%	1	05/02/23	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	05/02/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/02/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 09, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/28/23
04/28/23

Time

15:58

Laboratory Data

SDG ID: GCN93805
Phoenix ID: CN93825

Project ID: BRAINARD AIRPORT
Client ID: TB042823H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction	Completed				04/28/23		SW5035A
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Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/02/23	HM	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/02/23	HM	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/02/23	HM	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/02/23	HM	SW8260C
Acetone	ND	5000	ug/Kg	50	05/02/23	HM	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/02/23	HM	SW8260C
Benzene	ND	200	ug/Kg	50	05/02/23	HM	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/02/23	HM	SW8260C
Bromoform	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Chloroform	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/02/23	HM	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/02/23	HM	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Styrene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/02/23	HM	SW8260C
Toluene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/02/23	HM	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/02/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/02/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	99		%	50	05/02/23	HM	70 - 130 %
% Dibromofluoromethane (50x)	93		%	50	05/02/23	HM	70 - 130 %
% Toluene-d8 (50x)	99		%	50	05/02/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 09, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 09, 2023

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 675426 (mg/kg), QC Sample No: CN93686 2X (CN93805, CN93811, CN93812, CN93818, CN93819, CN93820)

Mercury - Soil	BRL	0.02	0.13	0.08	NC	105	117	10.8	107	76.4	33.4	70 - 130	30	r
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 675648 (mg/kg), QC Sample No: CN91299 (CN93805, CN93806, CN93807)

ICP Metals - Soil

Antimony	BRL	3.3	<3.3	<3.5	NC	99.6	123	21.0	80.8			75 - 125	35	
Arsenic	BRL	0.67	1.84	1.53	NC	97.9	123	22.7	87.4			75 - 125	35	
Barium	BRL	0.33	36.2	36.2	0	109	124	12.9	104			75 - 125	35	
Beryllium	BRL	0.27	0.31	0.32	NC	99.9	116	14.9	87.0			75 - 125	35	
Cadmium	BRL	0.33	0.49	0.49	NC	93.6	111	17.0	82.4			75 - 125	35	
Chromium	BRL	0.33	8.76	8.31	5.30	98.7	121	20.3	88.2			75 - 125	35	
Copper	BRL	0.67	36.8	41.3	11.5	101	125	21.2	93.3			75 - 125	35	
Lead	BRL	0.33	10.8	36.4	109	90.3	114	23.2	86.8			75 - 125	35	r
Nickel	BRL	0.33	7.79	8.40	7.50	97.2	118	19.3	87.8			75 - 125	35	
Selenium	BRL	1.3	<1.3	<1.4	NC	100	122	19.8	87.3			75 - 125	35	
Silver	BRL	0.33	<0.33	<0.35	NC	96.1	122	23.8	87.4			75 - 125	35	
Thallium	BRL	3.0	<3.0	<3.1	NC	100	118	16.5	85.7			75 - 125	35	
Vanadium	BRL	0.33	40.3	37.6	6.90	99.6	123	21.0	89.0			75 - 125	35	
Zinc	BRL	0.67	45.7	57.5	22.9	94.0	97.8	4.0	97.6			75 - 125	35	

Comment:
 Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 675649 (mg/kg), QC Sample No: CN93814 (CN93811, CN93812, CN93814, CN93815, CN93818, CN93819, CN93820)

ICP Metals - Soil

Antimony	BRL	3.3	<3.5	<3.5	NC	104	107	2.8	94.4			75 - 125	35	
Arsenic	BRL	0.67	1.46	1.55	NC	95.8	97.3	1.6	94.4			75 - 125	35	
Barium	BRL	0.33	13.4	12.5	6.90	103	108	4.7	104			75 - 125	35	
Beryllium	BRL	0.27	<0.28	<0.28	NC	96.9	101	4.1	97.0			75 - 125	35	
Cadmium	BRL	0.33	<0.35	<0.35	NC	90.3	91.4	1.2	92.0			75 - 125	35	
Chromium	BRL	0.33	13.8	8.24	50.5	99.3	102	2.7	93.6			75 - 125	35	r
Copper	BRL	0.67	5.1	5.63	9.90	102	106	3.8	102			75 - 125	35	
Lead	BRL	0.33	8.38	9.00	7.10	89.4	91.6	2.4	95.2			75 - 125	35	
Nickel	BRL	0.33	12.9	8.77	38.1	96.7	98.9	2.2	94.1			75 - 125	35	r
Selenium	BRL	1.3	<1.4	<1.4	NC	95.3	99.4	4.2	93.4			75 - 125	35	
Silver	BRL	0.33	<0.35	<0.35	NC	102	103	1.0	101			75 - 125	35	
Thallium	BRL	3.0	<3.1	<3.1	NC	98.9	104	5.0	94.8			75 - 125	35	
Vanadium	BRL	0.33	11.2	9.61	15.3	101	104	2.9	98.9			75 - 125	35	
Zinc	BRL	0.67	25.8	24.0	7.20	102	103	1.0	98.6			75 - 125	35	

Comment:
 Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

r = This parameter is outside laboratory RPD specified recovery limits.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 09, 2023

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 675706 (mg/Kg), QC Sample No: CN93805 (CN93805, CN93806, CN93807, CN93808, CN93809, CN93810, CN93811, CN93812, CN93813)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	78	121	43.2	117	90	26.1	60 - 120	30	I,r
% COD (surr)	82	%	91	104	13.3	147	103	35.2	50 - 150	30	r
% Terphenyl (surr)	80	%	88	105	17.6	115	95	19.0	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 675740 (mg/Kg), QC Sample No: CN93818 (CN93814, CN93815, CN93816, CN93817, CN93818, CN93819, CN93820, CN93821, CN93822, CN93823)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	128	110	15.1	108	132	20.0	60 - 120	30	I
% COD (surr)	70	%	163	126	25.6	124	177	35.2	50 - 150	30	I,m,r
% Terphenyl (surr)	66	%	93	86	7.8	80	97	19.2	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 675667 (ug/Kg), QC Sample No: CN93253 2X (CN93811, CN93812, CN93818, CN93819, CN93820, CN93821, CN93822)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	91	90	1.1	83	84	1.2	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	90	92	2.2	80	81	1.2	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	73	%	94	93	1.1	83	84	1.2	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm)	72	%	92	91	1.1	82	83	1.2	30 - 150	30	
% TCMX (Surrogate Rec)	66	%	85	85	0.0	78	80	2.5	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm)	67	%	87	86	1.2	79	81	2.5	30 - 150	30	

QA/QC Batch 675751 (ug/kg), QC Sample No: CN93493 (CN93806, CN93807, CN93809, CN93810, CN93814, CN93815, CN93817)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	42	53	23.2	55	73	28.1	40 - 140	30	
Acenaphthene	ND	230	45	56	21.8	57	71	21.9	30 - 130	30	
Acenaphthylene	ND	230	42	50	17.4	52	66	23.7	40 - 140	30	
Anthracene	ND	230	52	61	15.9	68	74	8.5	40 - 140	30	
Benz(a)anthracene	ND	230	51	61	17.9	64	67	4.6	40 - 140	30	
Benzo(a)pyrene	ND	230	62	71	13.5	79	84	6.1	40 - 140	30	

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(b)fluoranthene	ND	230	56	65	14.9	73	77	5.3	40 - 140	30
Benzo(ghi)perylene	ND	230	65	78	18.2	78	81	3.8	40 - 140	30
Benzo(k)fluoranthene	ND	230	51	59	14.5	64	69	7.5	40 - 140	30
Chrysene	ND	230	55	65	16.7	69	70	1.4	40 - 140	30
Dibenz(a,h)anthracene	ND	230	65	77	16.9	83	86	3.6	40 - 140	30
Fluoranthene	ND	230	53	61	14.0	63	67	6.2	40 - 140	30
Fluorene	ND	230	53	63	17.2	67	80	17.7	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	66	78	16.7	80	83	3.7	40 - 140	30
Naphthalene	ND	230	36	49	30.6	52	81	43.6	40 - 140	30
Phenanthrene	ND	230	53	62	15.7	69	73	5.6	40 - 140	30
Pyrene	ND	230	52	61	15.9	64	66	3.1	30 - 130	30
% 2-Fluorobiphenyl	56	%	43	51	17.0	50	66	27.6	30 - 130	30
% Nitrobenzene-d5	22	%	31	40	25.4	40	65	47.6	30 - 130	30
% Terphenyl-d14	64	%	50	57	13.1	61	64	4.8	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 675634 (ug/kg), QC Sample No: CN93692 (CN93805, CN93811, CN93818, CN93819, CN93820, CN93821, CN93822)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	50	50	0.0	58	69	17.3	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	50	50	0.0	55	69	22.6	40 - 140	30
1,2-Dichlorobenzene	ND	180	49	50	2.0	50	60	18.2	40 - 140	30
1,2-Diphenylhydrazine	ND	230	63	66	4.7	82	81	1.2	40 - 140	30
1,3-Dichlorobenzene	ND	230	47	48	2.1	47	58	21.0	40 - 140	30
1,4-Dichlorobenzene	ND	230	48	49	2.1	48	59	20.6	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	63	64	1.6	71	80	11.9	40 - 140	30
2,4,5-Trichlorophenol	ND	230	65	67	3.0	82	83	1.2	40 - 140	30
2,4,6-Trichlorophenol	ND	130	65	67	3.0	81	83	2.4	30 - 130	30
2,4-Dichlorophenol	ND	130	60	60	0.0	70	82	15.8	30 - 130	30
2,4-Dimethylphenol	ND	230	61	59	3.3	70	83	17.0	30 - 130	30
2,4-Dinitrophenol	ND	230	71	76	6.8	84	88	4.7	30 - 130	30
2,4-Dinitrotoluene	ND	130	83	88	5.8	103	103	0.0	30 - 130	30
2,6-Dinitrotoluene	ND	130	61	65	6.3	80	79	1.3	40 - 140	30
2-Chloronaphthalene	ND	230	60	62	3.3	74	78	5.3	40 - 140	30
2-Chlorophenol	ND	230	59	58	1.7	66	75	12.8	30 - 130	30
2-Methylnaphthalene	ND	230	57	56	1.8	66	78	16.7	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	63	63	0.0	72	80	10.5	40 - 140	30
2-Nitroaniline	ND	330	102	105	2.9	145	131	10.1	40 - 140	30
2-Nitrophenol	ND	230	67	67	0.0	76	93	20.1	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	71	71	0.0	82	91	10.4	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	33	32	3.1	79	64	21.0	40 - 140	30
3-Nitroaniline	ND	330	27	30	10.5	83	58	35.5	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	65	69	6.0	81	84	3.6	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	63	65	3.1	80	79	1.3	40 - 140	30
4-Chloro-3-methylphenol	ND	230	62	65	4.7	78	86	9.8	30 - 130	30
4-Chloroaniline	ND	230	15	17	12.5	60	41	37.6	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	63	66	4.7	81	82	1.2	40 - 140	30
4-Nitroaniline	ND	230	70	75	6.9	92	93	1.1	40 - 140	30
4-Nitrophenol	ND	230	74	82	10.3	93	95	2.1	30 - 130	30
Acenaphthene	ND	230	60	62	3.3	74	79	6.5	30 - 130	30
Acenaphthylene	ND	130	56	57	1.8	70	71	1.4	40 - 140	30
Acetophenone	ND	230	61	60	1.7	68	76	11.1	40 - 140	30

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Aniline	ND	330	61	69	12.3	50	25	66.7	40 - 140	30	m,r
Anthracene	ND	230	62	66	6.3	82	82	0.0	40 - 140	30	
Benz(a)anthracene	ND	230	62	66	6.3	81	83	2.4	40 - 140	30	
Benzidine	ND	330	<10	<10	NC	21	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	68	73	7.1	87	90	3.4	40 - 140	30	
Benzo(b)fluoranthene	ND	160	65	72	10.2	84	86	2.4	40 - 140	30	
Benzo(ghi)perylene	ND	230	71	77	8.1	89	90	1.1	40 - 140	30	
Benzo(k)fluoranthene	ND	230	61	68	10.9	78	79	1.3	40 - 140	30	
Benzoic Acid	ND	670	74	77	4.0	67	80	17.7	30 - 130	30	
Benzyl butyl phthalate	ND	230	59	66	11.2	82	82	0.0	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	60	60	0.0	70	83	17.0	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	61	61	0.0	65	75	14.3	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	58	63	8.3	80	76	5.1	40 - 140	30	
Carbazole	ND	230	62	67	7.8	82	80	2.5	40 - 140	30	
Chrysene	ND	230	64	68	6.1	83	85	2.4	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	71	77	8.1	90	89	1.1	40 - 140	30	
Dibenzofuran	ND	230	61	63	3.2	78	80	2.5	40 - 140	30	
Diethyl phthalate	ND	230	62	65	4.7	81	79	2.5	40 - 140	30	
Dimethylphthalate	ND	230	62	65	4.7	79	79	0.0	40 - 140	30	
Di-n-butylphthalate	ND	670	66	72	8.7	88	85	3.5	40 - 140	30	
Di-n-octylphthalate	ND	230	57	64	11.6	81	80	1.2	40 - 140	30	
Fluoranthene	ND	230	66	71	7.3	88	97	9.7	40 - 140	30	
Fluorene	ND	230	66	69	4.4	85	87	2.3	40 - 140	30	
Hexachlorobenzene	ND	130	68	73	7.1	86	88	2.3	40 - 140	30	
Hexachlorobutadiene	ND	230	51	51	0.0	55	68	21.1	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	48	50	4.1	46	61	28.0	40 - 140	30	
Hexachloroethane	ND	130	48	50	4.1	49	60	20.2	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	71	78	9.4	90	91	1.1	40 - 140	30	
Isophorone	ND	130	55	56	1.8	64	76	17.1	40 - 140	30	
Naphthalene	ND	230	57	57	0.0	65	79	19.4	40 - 140	30	
Nitrobenzene	ND	130	61	61	0.0	69	77	11.0	40 - 140	30	
N-Nitrosodimethylamine	ND	230	45	49	8.5	46	59	24.8	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	65	65	0.0	74	83	11.5	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	58	59	1.7	76	74	2.7	40 - 140	30	
Pentachloronitrobenzene	ND	230	62	66	6.3	80	78	2.5	40 - 140	30	
Pentachlorophenol	ND	230	70	77	9.5	88	88	0.0	30 - 130	30	
Phenanthrene	ND	130	64	67	4.6	83	95	13.5	40 - 140	30	
Phenol	ND	230	68	67	1.5	82	88	7.1	30 - 130	30	
Pyrene	ND	230	66	71	7.3	88	95	7.7	30 - 130	30	
Pyridine	ND	230	40	40	0.0	32	53	49.4	40 - 140	30	m,r
% 2,4,6-Tribromophenol	88	%	74	80	7.8	96	98	2.1	30 - 130	30	
% 2-Fluorobiphenyl	71	%	58	59	1.7	71	76	6.8	30 - 130	30	
% 2-Fluorophenol	69	%	55	56	1.8	62	72	14.9	30 - 130	30	
% Nitrobenzene-d5	75	%	59	60	1.7	68	75	9.8	30 - 130	30	
% Phenol-d5	73	%	63	64	1.6	72	82	13.0	30 - 130	30	
% Terphenyl-d14	74	%	58	64	9.8	78	75	3.9	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 675901 (ug/kg), QC Sample No: CN93943 (CN93812)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	54	63	15.4	57	57	0.0	40 - 140	30	
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QA/QC Data

SDG I.D.: GCN93805

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trichlorobenzene	ND	230	51	58	12.8	54	54	0.0	40 - 140	30
1,2-Dichlorobenzene	ND	180	52	59	12.6	53	55	3.7	40 - 140	30
1,2-Diphenylhydrazine	ND	230	60	73	19.5	61	65	6.3	40 - 140	30
1,3-Dichlorobenzene	ND	230	51	57	11.1	51	52	1.9	40 - 140	30
1,4-Dichlorobenzene	ND	230	51	59	14.5	52	53	1.9	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	58	66	12.9	62	65	4.7	40 - 140	30
2,4,5-Trichlorophenol	ND	230	60	73	19.5	63	64	1.6	40 - 140	30
2,4,6-Trichlorophenol	ND	130	61	70	13.7	62	62	0.0	30 - 130	30
2,4-Dichlorophenol	ND	130	60	72	18.2	64	65	1.6	30 - 130	30
2,4-Dimethylphenol	ND	230	62	71	13.5	65	66	1.5	30 - 130	30
2,4-Dinitrophenol	ND	230	18	21	15.4	58	53	9.0	30 - 130	30
2,4-Dinitrotoluene	ND	130	47	64	30.6	55	59	7.0	30 - 130	30
2,6-Dinitrotoluene	ND	130	49	65	28.1	55	58	5.3	40 - 140	30
2-Chloronaphthalene	ND	230	57	65	13.1	57	60	5.1	40 - 140	30
2-Chlorophenol	ND	230	57	67	16.1	62	63	1.6	30 - 130	30
2-Methylnaphthalene	ND	230	57	69	19.0	61	61	0.0	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	63	71	11.9	66	68	3.0	40 - 140	30
2-Nitroaniline	ND	330	77	97	23.0	76	84	10.0	40 - 140	30
2-Nitrophenol	ND	230	48	61	23.9	56	63	11.8	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	67	77	13.9	73	71	2.8	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	65	73	11.6	66	69	4.4	40 - 140	30
3-Nitroaniline	ND	330	63	80	23.8	66	68	3.0	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	31	37	17.6	58	59	1.7	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	60	66	9.5	63	59	6.6	40 - 140	30
4-Chloro-3-methylphenol	ND	230	66	79	17.9	70	72	2.8	30 - 130	30
4-Chloroaniline	ND	230	65	75	14.3	60	64	6.5	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	59	73	21.2	60	60	0.0	40 - 140	30
4-Nitroaniline	ND	230	53	71	29.0	63	66	4.7	40 - 140	30
4-Nitrophenol	ND	230	69	93	29.6	85	91	6.8	30 - 130	30
Acenaphthene	ND	230	59	67	12.7	60	60	0.0	30 - 130	30
Acenaphthylene	ND	130	55	64	15.1	56	56	0.0	40 - 140	30
Acetophenone	ND	230	56	65	14.9	59	59	0.0	40 - 140	30
Aniline	ND	330	55	66	18.2	51	58	12.8	40 - 140	30
Anthracene	ND	230	61	70	13.7	64	64	0.0	40 - 140	30
Benz(a)anthracene	ND	230	61	70	13.7	63	63	0.0	40 - 140	30
Benzidine	ND	330	52	61	15.9	37	39	5.3	40 - 140	30
Benzo(a)pyrene	ND	130	67	77	13.9	67	69	2.9	40 - 140	30
Benzo(b)fluoranthene	ND	160	62	71	13.5	63	67	6.2	40 - 140	30
Benzo(ghi)perylene	ND	230	62	71	13.5	56	58	3.5	40 - 140	30
Benzo(k)fluoranthene	ND	230	60	68	12.5	58	61	5.0	40 - 140	30
Benzoic Acid	ND	670	24	20	18.2	54	47	13.9	30 - 130	30
Benzyl butyl phthalate	ND	230	66	78	16.7	72	72	0.0	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	57	66	14.6	59	61	3.3	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	54	63	15.4	56	59	5.2	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	66	78	16.7	72	73	1.4	40 - 140	30
Carbazole	ND	230	64	73	13.1	64	64	0.0	40 - 140	30
Chrysene	ND	230	65	75	14.3	64	65	1.6	40 - 140	30
Dibenz(a,h)anthracene	ND	130	62	72	14.9	57	59	3.4	40 - 140	30
Dibenzofuran	ND	230	58	70	18.8	60	61	1.7	40 - 140	30
Diethyl phthalate	ND	230	62	76	20.3	63	63	0.0	40 - 140	30
Dimethylphthalate	ND	230	61	74	19.3	61	60	1.7	40 - 140	30
Di-n-butylphthalate	ND	670	67	78	15.2	69	67	2.9	40 - 140	30
Di-n-octylphthalate	ND	230	67	83	21.3	73	76	4.0	40 - 140	30

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Fluoranthene	ND	230	64	72	11.8	66	65	1.5	40 - 140	30
Fluorene	ND	230	62	77	21.6	64	65	1.6	40 - 140	30
Hexachlorobenzene	ND	130	62	72	14.9	64	65	1.6	40 - 140	30
Hexachlorobutadiene	ND	230	51	57	11.1	51	54	5.7	40 - 140	30
Hexachlorocyclopentadiene	ND	230	45	52	14.4	24	20	18.2	40 - 140	30 m
Hexachloroethane	ND	130	51	59	14.5	52	54	3.8	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	62	72	14.9	57	59	3.4	40 - 140	30
Isophorone	ND	130	52	63	19.1	54	56	3.6	40 - 140	30
Naphthalene	ND	230	55	62	12.0	57	56	1.8	40 - 140	30
Nitrobenzene	ND	130	53	65	20.3	61	61	0.0	40 - 140	30
N-Nitrosodimethylamine	ND	230	48	55	13.6	47	51	8.2	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	60	70	15.4	63	64	1.6	40 - 140	30
N-Nitrosodiphenylamine	ND	130	61	74	19.3	62	62	0.0	40 - 140	30
Pentachloronitrobenzene	ND	230	50	61	19.8	57	56	1.8	40 - 140	30
Pentachlorophenol	ND	230	49	57	15.1	64	61	4.8	30 - 130	30
Phenanthrene	ND	130	62	69	10.7	65	64	1.6	40 - 140	30
Phenol	ND	230	62	70	12.1	67	69	2.9	30 - 130	30
Pyrene	ND	230	64	73	13.1	65	66	1.5	30 - 130	30
Pyridine	ND	230	40	46	14.0	39	41	5.0	40 - 140	30 m
% 2,4,6-Tribromophenol	61	%	60	73	19.5	72	71	1.4	30 - 130	30
% 2-Fluorobiphenyl	55	%	55	59	7.0	54	55	1.8	30 - 130	30
% 2-Fluorophenol	56	%	54	60	10.5	54	56	3.6	30 - 130	30
% Nitrobenzene-d5	49	%	47	56	17.5	52	54	3.8	30 - 130	30
% Phenol-d5	63	%	62	69	10.7	64	65	1.6	30 - 130	30
% Terphenyl-d14	64	%	57	63	10.0	57	56	1.8	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 675567 (ug/kg), QC Sample No: CN93819 (CN93805, CN93806, CN93807, CN93808, CN93812, CN93813, CN93814, CN93815, CN93816, CN93819)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	109	109	0.0	109	109	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	107	105	1.9	109	109	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	99	101	2.0	105	107	1.9	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	98	101	3.0	100	102	2.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	102	102	0.0	105	106	0.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	101	99	2.0	109	111	1.8	70 - 130	30
1,1-Dichloropropene	ND	5.0	105	104	1.0	112	112	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	103	102	1.0	88	85	3.5	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	95	95	0.0	97	98	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	103	99	4.0	89	87	2.3	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	104	103	1.0	109	110	0.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	109	112	2.7	107	109	1.9	70 - 130	30
1,2-Dibromoethane	ND	5.0	105	107	1.9	107	107	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	101	99	2.0	99	99	0.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	102	104	1.9	102	102	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	99	101	2.0	102	104	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	105	104	1.0	112	113	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	100	98	2.0	100	100	0.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	105	106	0.9	107	107	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	100	98	2.0	99	99	0.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	108	107	0.9	106	107	0.9	70 - 130	30

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	BLK RL								
2-Chlorotoluene	ND	5.0	103	102	1.0	108	111	2.7	70 - 130	30
2-Hexanone	ND	25	103	107	3.8	98	99	1.0	70 - 130	30
2-Isopropyltoluene	ND	5.0	104	103	1.0	110	112	1.8	70 - 130	30
4-Chlorotoluene	ND	5.0	103	101	2.0	105	107	1.9	70 - 130	30
4-Methyl-2-pentanone	ND	25	101	105	3.9	99	100	1.0	70 - 130	30
Acetone	ND	10	91	91	0.0	104	98	5.9	70 - 130	30
Acrylonitrile	ND	5.0	99	103	4.0	97	99	2.0	70 - 130	30
Benzene	ND	1.0	100	101	1.0	107	108	0.9	70 - 130	30
Bromobenzene	ND	5.0	102	101	1.0	105	106	0.9	70 - 130	30
Bromochloromethane	ND	5.0	102	102	0.0	103	104	1.0	70 - 130	30
Bromodichloromethane	ND	5.0	103	106	2.9	104	104	0.0	70 - 130	30
Bromoform	ND	5.0	112	113	0.9	104	106	1.9	70 - 130	30
Bromomethane	ND	5.0	102	99	3.0	112	113	0.9	70 - 130	30
Carbon Disulfide	ND	5.0	93	92	1.1	102	105	2.9	70 - 130	30
Carbon tetrachloride	ND	5.0	109	106	2.8	108	109	0.9	70 - 130	30
Chlorobenzene	ND	5.0	102	102	0.0	105	105	0.0	70 - 130	30
Chloroethane	ND	5.0	102	99	3.0	113	113	0.0	70 - 130	30
Chloroform	ND	5.0	102	102	0.0	104	105	1.0	70 - 130	30
Chloromethane	ND	5.0	91	89	2.2	102	106	3.8	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	102	103	1.0	106	108	1.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	104	106	1.9	104	105	1.0	70 - 130	30
Dibromochloromethane	ND	3.0	110	111	0.9	107	108	0.9	70 - 130	30
Dibromomethane	ND	5.0	101	103	2.0	102	104	1.9	70 - 130	30
Dichlorodifluoromethane	ND	5.0	82	80	2.5	121	123	1.6	70 - 130	30
Ethylbenzene	ND	1.0	105	104	1.0	110	111	0.9	70 - 130	30
Hexachlorobutadiene	ND	5.0	99	98	1.0	100	97	3.0	70 - 130	30
Isopropylbenzene	ND	1.0	106	105	0.9	116	118	1.7	70 - 130	30
m&p-Xylene	ND	2.0	105	104	1.0	109	110	0.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	96	100	4.1	93	94	1.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	100	101	1.0	99	100	1.0	70 - 130	30
Methylene chloride	ND	5.0	94	93	1.1	111	108	2.7	70 - 130	30
Naphthalene	ND	5.0	112	113	0.9	98	96	2.1	70 - 130	30
n-Butylbenzene	ND	1.0	106	103	2.9	111	111	0.0	70 - 130	30
n-Propylbenzene	ND	1.0	103	102	1.0	112	113	0.9	70 - 130	30
o-Xylene	ND	2.0	104	104	0.0	108	108	0.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	107	105	1.9	113	115	1.8	70 - 130	30
sec-Butylbenzene	ND	1.0	106	105	0.9	115	116	0.9	70 - 130	30
Styrene	ND	5.0	101	102	1.0	101	102	1.0	70 - 130	30
tert-Butylbenzene	ND	1.0	106	106	0.0	116	117	0.9	70 - 130	30
Tetrachloroethene	ND	5.0	98	98	0.0	105	106	0.9	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	98	102	4.0	90	94	4.3	70 - 130	30
Toluene	ND	1.0	101	101	0.0	107	107	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	89	89	0.0	95	96	1.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	105	108	2.8	103	102	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	110	106	3.7	102	104	1.9	70 - 130	30
Trichloroethene	ND	5.0	102	101	1.0	106	107	0.9	70 - 130	30
Trichlorofluoromethane	ND	5.0	105	101	3.9	113	114	0.9	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	93	90	3.3	102	103	1.0	70 - 130	30
Vinyl chloride	ND	5.0	95	94	1.1	110	111	0.9	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	96	%	101	101	0.0	98	98	0.0	70 - 130	30
% Dibromofluoromethane	100	%	99	101	2.0	98	99	1.0	70 - 130	30
% Toluene-d8	97	%	98	99	1.0	99	99	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Comment:											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.											
QA/QC Batch 675889 (ug/kg), QC Sample No: CN93947 (CN93811, CN93818, CN93820, CN93821, CN93822, CN93824)											
<u>Volatiles - Soil (Low Level)</u>											
1,1,1,2-Tetrachloroethane	ND	5.0	102	102	0.0	94	95	1.1	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	103	104	1.0	101	100	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	98	94	4.2	94	91	3.2	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	103	100	3.0	97	95	2.1	70 - 130	30	
1,1-Dichloroethane	ND	5.0	102	103	1.0	98	100	2.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	97	98	1.0	94	95	1.1	70 - 130	30	
1,1-Dichloropropene	ND	5.0	102	102	0.0	102	99	3.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	95	96	1.0	66	63	4.7	70 - 130	30 m	
1,2,3-Trichloropropane	ND	5.0	103	101	2.0	100	95	5.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	89	92	3.3	66	64	3.1	70 - 130	30 m	
1,2,4-Trimethylbenzene	ND	1.0	96	98	2.1	89	88	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	111	105	5.6	93	90	3.3	70 - 130	30	
1,2-Dibromoethane	ND	5.0	104	103	1.0	96	95	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	95	96	1.0	83	81	2.4	70 - 130	30	
1,2-Dichloroethane	ND	5.0	103	101	2.0	98	98	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	101	100	1.0	98	96	2.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	98	99	1.0	91	90	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	94	95	1.1	82	81	1.2	70 - 130	30	
1,3-Dichloropropane	ND	5.0	104	103	1.0	99	99	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	92	93	1.1	81	79	2.5	70 - 130	30	
1,4-dioxane	ND	100	100	106	5.8	99	95	4.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	102	102	0.0	100	98	2.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	99	100	1.0	92	90	2.2	70 - 130	30	
2-Hexanone	ND	25	102	97	5.0	88	86	2.3	70 - 130	30	
2-Isopropyltoluene	ND	5.0	99	100	1.0	89	88	1.1	70 - 130	30	
4-Chlorotoluene	ND	5.0	95	98	3.1	87	86	1.2	70 - 130	30	
4-Methyl-2-pentanone	ND	25	105	99	5.9	95	91	4.3	70 - 130	30	
Acetone	ND	10	90	87	3.4	81	80	1.2	70 - 130	30	
Acrylonitrile	ND	5.0	100	95	5.1	89	87	2.3	70 - 130	30	
Benzene	ND	1.0	102	102	0.0	100	100	0.0	70 - 130	30	
Bromobenzene	ND	5.0	100	101	1.0	89	89	0.0	70 - 130	30	
Bromochloromethane	ND	5.0	104	102	1.9	98	97	1.0	70 - 130	30	
Bromodichloromethane	ND	5.0	102	101	1.0	97	97	0.0	70 - 130	30	
Bromoform	ND	5.0	108	104	3.8	90	89	1.1	70 - 130	30	
Bromomethane	ND	5.0	94	98	4.2	89	92	3.3	70 - 130	30	
Carbon Disulfide	ND	5.0	91	92	1.1	85	84	1.2	70 - 130	30	
Carbon tetrachloride	ND	5.0	99	101	2.0	95	95	0.0	70 - 130	30	
Chlorobenzene	ND	5.0	99	100	1.0	93	93	0.0	70 - 130	30	
Chloroethane	ND	5.0	100	100	0.0	96	100	4.1	70 - 130	30	
Chloroform	ND	5.0	102	103	1.0	101	101	0.0	70 - 130	30	
Chloromethane	ND	5.0	96	95	1.0	88	86	2.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	102	103	1.0	95	99	4.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	102	101	1.0	97	95	2.1	70 - 130	30	
Dibromochloromethane	ND	3.0	105	103	1.9	94	94	0.0	70 - 130	30	
Dibromomethane	ND	5.0	106	103	2.9	100	99	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	78	77	1.3	79	77	2.6	70 - 130	30	
Ethylbenzene	ND	1.0	102	102	0.0	97	96	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN93805

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Hexachlorobutadiene	ND	5.0	98	99	1.0	70	64	9.0	70 - 130	30	m
Isopropylbenzene	ND	1.0	101	102	1.0	96	94	2.1	70 - 130	30	
m&p-Xylene	ND	2.0	98	100	2.0	94	94	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	106	99	6.8	95	89	6.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	101	100	1.0	97	96	1.0	70 - 130	30	
Methylene chloride	ND	5.0	92	91	1.1	91	93	2.2	70 - 130	30	
Naphthalene	ND	5.0	103	101	2.0	80	77	3.8	70 - 130	30	
n-Butylbenzene	ND	1.0	96	98	2.1	87	83	4.7	70 - 130	30	
n-Propylbenzene	ND	1.0	99	100	1.0	93	91	2.2	70 - 130	30	
o-Xylene	ND	2.0	98	100	2.0	93	92	1.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	98	99	1.0	89	87	2.3	70 - 130	30	
sec-Butylbenzene	ND	1.0	100	101	1.0	91	89	2.2	70 - 130	30	
Styrene	ND	5.0	98	100	2.0	92	92	0.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	101	102	1.0	93	91	2.2	70 - 130	30	
Tetrachloroethene	ND	5.0	96	97	1.0	93	91	2.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	104	100	3.9	88	84	4.7	70 - 130	30	
Toluene	ND	1.0	102	102	0.0	98	97	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	96	98	2.1	93	94	1.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	102	100	2.0	95	93	2.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	103	99	4.0	90	88	2.2	70 - 130	30	
Trichloroethene	ND	5.0	103	103	0.0	98	96	2.1	70 - 130	30	
Trichlorofluoromethane	ND	5.0	94	94	0.0	91	91	0.0	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	82	84	2.4	82	81	1.2	70 - 130	30	
Vinyl chloride	ND	5.0	97	96	1.0	92	93	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	98	%	100	100	0.0	101	101	0.0	70 - 130	30	
% Dibromofluoromethane	99	%	102	101	1.0	98	97	1.0	70 - 130	30	
% Toluene-d8	99	%	101	101	0.0	103	101	2.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 675889H (ug/kg), QC Sample No: CN93947 50X (CN93825 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	110	111	0.9	108	109	0.9	70 - 130	30
1,1,1-Trichloroethane	ND	250	106	108	1.9	107	109	1.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	117	115	1.7	116	119	2.6	70 - 130	30
1,1,2-Trichloroethane	ND	250	114	112	1.8	111	111	0.0	70 - 130	30
1,1-Dichloroethane	ND	250	106	109	2.8	107	109	1.9	70 - 130	30
1,1-Dichloroethene	ND	250	74	81	9.0	81	83	2.4	70 - 130	30
1,1-Dichloropropene	ND	250	111	113	1.8	110	111	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	120	120	0.0	110	111	0.9	70 - 130	30
1,2,3-Trichloropropane	ND	250	118	119	0.8	120	121	0.8	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	120	120	0.0	111	114	2.7	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	112	115	2.6	111	114	2.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	122	120	1.7	114	116	1.7	70 - 130	30
1,2-Dibromoethane	ND	250	115	115	0.0	114	114	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	250	114	115	0.9	111	112	0.9	70 - 130	30
1,2-Dichloroethane	ND	250	111	112	0.9	111	112	0.9	70 - 130	30
1,2-Dichloropropane	ND	250	110	111	0.9	109	109	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	112	114	1.8	112	114	1.8	70 - 130	30
1,3-Dichlorobenzene	ND	250	114	115	0.9	111	112	0.9	70 - 130	30
1,3-Dichloropropane	ND	250	116	115	0.9	115	116	0.9	70 - 130	30

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,4-Dichlorobenzene	ND	250	114	115	0.9	110	113	2.7	70 - 130	30
2,2-Dichloropropane	ND	250	105	108	2.8	106	108	1.9	70 - 130	30
2-Chlorotoluene	ND	250	114	116	1.7	112	115	2.6	70 - 130	30
2-Hexanone	ND	1300	116	112	3.5	111	110	0.9	70 - 130	30
2-Isopropyltoluene	ND	250	111	113	1.8	110	112	1.8	70 - 130	30
4-Chlorotoluene	ND	250	113	115	1.8	112	114	1.8	70 - 130	30
4-Methyl-2-pentanone	ND	1300	116	114	1.7	111	112	0.9	70 - 130	30
Acetone	ND	500	82	83	1.2	81	81	0.0	70 - 130	30
Acrylonitrile	ND	250	108	107	0.9	107	106	0.9	70 - 130	30
Benzene	ND	250	111	112	0.9	110	112	1.8	70 - 130	30
Bromobenzene	ND	250	115	115	0.0	111	113	1.8	70 - 130	30
Bromochloromethane	ND	250	111	111	0.0	111	112	0.9	70 - 130	30
Bromodichloromethane	ND	250	110	110	0.0	105	108	2.8	70 - 130	30
Bromoform	ND	250	117	113	3.5	104	106	1.9	70 - 130	30
Bromomethane	ND	250	66	70	5.9	66	68	3.0	70 - 130	30
Carbon Disulfide	ND	250	72	76	5.4	79	80	1.3	70 - 130	30
Carbon tetrachloride	ND	250	102	104	1.9	96	101	5.1	70 - 130	30
Chlorobenzene	ND	250	112	113	0.9	111	112	0.9	70 - 130	30
Chloroethane	ND	250	24	25	4.1	24	23	4.3	70 - 130	30
Chloroform	ND	250	108	110	1.8	109	111	1.8	70 - 130	30
Chloromethane	ND	250	102	103	1.0	99	99	0.0	70 - 130	30
cis-1,2-Dichloroethene	ND	250	105	107	1.9	105	106	0.9	70 - 130	30
cis-1,3-Dichloropropene	ND	250	111	111	0.0	110	110	0.0	70 - 130	30
Dibromochloromethane	ND	150	114	112	1.8	106	108	1.9	70 - 130	30
Dibromomethane	ND	250	116	116	0.0	113	115	1.8	70 - 130	30
Dichlorodifluoromethane	ND	250	84	88	4.7	87	88	1.1	70 - 130	30
Ethylbenzene	ND	250	113	116	2.6	113	114	0.9	70 - 130	30
Hexachlorobutadiene	ND	250	115	118	2.6	112	111	0.9	70 - 130	30
Isopropylbenzene	ND	250	112	115	2.6	112	113	0.9	70 - 130	30
m&p-Xylene	ND	250	111	113	1.8	111	112	0.9	70 - 130	30
Methyl ethyl ketone	ND	250	113	111	1.8	109	110	0.9	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	107	106	0.9	108	109	0.9	70 - 130	30
Methylene chloride	ND	250	94	95	1.1	98	96	2.1	70 - 130	30
Naphthalene	ND	250	123	121	1.6	114	117	2.6	70 - 130	30
n-Butylbenzene	ND	250	118	121	2.5	117	119	1.7	70 - 130	30
n-Propylbenzene	ND	250	114	117	2.6	113	114	0.9	70 - 130	30
o-Xylene	ND	250	109	112	2.7	109	110	0.9	70 - 130	30
p-Isopropyltoluene	ND	250	113	116	2.6	112	114	1.8	70 - 130	30
sec-Butylbenzene	ND	250	112	115	2.6	113	114	0.9	70 - 130	30
Styrene	ND	250	113	114	0.9	112	113	0.9	70 - 130	30
tert-Butylbenzene	ND	250	111	114	2.7	111	112	0.9	70 - 130	30
Tetrachloroethene	ND	250	109	111	1.8	106	107	0.9	70 - 130	30
Tetrahydrofuran (THF)	ND	250	113	113	0.0	112	112	0.0	70 - 130	30
Toluene	ND	250	112	115	2.6	111	113	1.8	70 - 130	30
trans-1,2-Dichloroethene	ND	250	100	102	2.0	102	103	1.0	70 - 130	30
trans-1,3-Dichloropropene	ND	250	112	111	0.9	109	110	0.9	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	118	117	0.9	112	114	1.8	70 - 130	30
Trichloroethene	ND	250	109	110	0.9	108	108	0.0	70 - 130	30
Trichlorofluoromethane	ND	250	22	22	0.0	21	21	0.0	70 - 130	30
Trichlorotrifluoroethane	ND	250	71	75	5.5	76	77	1.3	70 - 130	30
Vinyl chloride	ND	250	105	108	2.8	105	105	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	101	100	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	99	%	100	100	0.0	102	101	1.0	70 - 130	30

QA/QC Data

SDG I.D.: GCN93805

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Dibromofluoromethane	96	%	96	98	2.1	94	95	1.1	70 - 130	30
% Toluene-d8	99	%	102	101	1.0	101	102	1.0	70 - 130	30

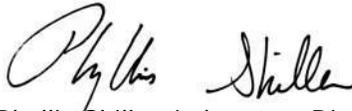
Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

- I = This parameter is outside laboratory LCS/LCSD specified recovery limits.
- m = This parameter is outside laboratory MS/MSD specified recovery limits.
- r = This parameter is outside laboratory RPD specified recovery limits.
- s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


Phyllis Shiller, Laboratory Director
May 09, 2023

Tuesday, May 09, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN93805 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN93825	\$8260MER	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	25	7	7	ug/Kg
CN93825	\$8260MER	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	50	40	40	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CN93805-CN93825

Sampling Date(s): 4/28/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>YPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, ICP Narration, SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Tuesday, May 09, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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RCP Certification Report

May 09, 2023

SDG I.D.: GCN93805

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 675706 (Samples: CN93805, CN93806, CN93807, CN93808, CN93809, CN93810, CN93811, CN93812, CN93813): -----

The LCSD recovery is above the upper range for analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Ext. Petroleum H.C. (C9-C36))

The LCS/LCSD RPD exceeds the method criteria, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Ext. Petroleum H.C. (C9-C36))

The MS/MSD RPD exceeds the method criteria for one surrogate. No significant variability is suspected. (% COD (surr))

QC Batch 675740 (Samples: CN93814, CN93815, CN93816, CN93817, CN93818, CN93819, CN93820, CN93821, CN93822, CN93823): -----

The LCS and MSD recovery for one surrogate is outside of criteria. No significant bias is suspected. (% COD (surr))

The LCS recovery is above the upper range for analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Ext. Petroleum H.C. (C9-C36))

The MS/MSD RPD exceeds the method criteria for one surrogate. No significant variability is suspected. (% COD (surr))

Instrument:

AU-FID1 05/03/23-1

Jeff Bucko, Chemist 05/03/23

CN93814 (1X), CN93815 (1X), CN93816 (1X), CN93817 (1X), CN93818 (1X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (503A003_3) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 05/03/23-1

Jeff Bucko, Chemist 05/03/23

CN93807 (1X), CN93810 (1X), CN93819 (1X), CN93820 (1X), CN93821 (1X), CN93822 (1X), CN93823 (1X)

The initial calibration (ETPH131I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (503A005_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 05/02/23-1

Jeff Bucko, Chemist 05/02/23

CN93805 (1X), CN93806 (1X), CN93808 (1X), CN93809 (1X), CN93811 (1X), CN93812 (1X), CN93813 (1X)



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RCP Certification Report

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SDG I.D.: GCN93805

ETPH Narration

The initial calibration (ETPH116I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (502A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 675706 (CN93805)

CN93805, CN93806, CN93807, CN93808, CN93809, CN93810, CN93811, CN93812, CN93813

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(121%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Ext. Petroleum H.C. (C9-C36)(43.2%)

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: % COD (surr)(35.2%)

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 675740 (CN93818)

CN93814, CN93815, CN93816, CN93817, CN93818, CN93819, CN93820, CN93821, CN93822, CN93823

All LCS recoveries were within 60 - 120 with the following exceptions: % COD (surr)(163%), Ext. Petroleum H.C. (C9-C36)(128%)

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: % COD (surr)(177%)

All MS/MSD RPDs were less than 30% with the following exceptions: % COD (surr)(35.2%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/02/23 10:17 Paul Marshall, Chemist 05/02/23

CN93805, CN93811, CN93812, CN93818, CN93819, CN93820

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 675426 (CN93686)



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Certification Report

May 09, 2023

SDG I.D.: GCN93805

Mercury Narration

CN93805, CN93811, CN93812, CN93818, CN93819, CN93820

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 675649 (Samples: CN93811, CN93812, CN93814, CN93815, CN93818, CN93819, CN93820): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Chromium, Nickel)

Instrument:

ARCOS 05/04/23 10:59 Cindy Pearce, Chemist 05/04/23

CN93811, CN93812, CN93814, CN93815, CN93818, CN93819, CN93820

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/03/23 10:50 Ian Enders, Chemist 05/03/23

CN93805, CN93806, CN93807

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 675648 (CN91299)

CN93805, CN93806, CN93807

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 675649 (CN93814)

CN93811, CN93812, CN93814, CN93815, CN93818, CN93819, CN93820

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.



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Certification Report

May 09, 2023

SDG I.D.: GCN93805

ICP Metals Narration

All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD3 05/03/23-1 Saadia Chudary, Chemist 05/03/23

CN93811 (10X), CN93812 (10X), CN93818 (10X), CN93819 (10X), CN93820 (10X), CN93821 (10X), CN93822 (10X)

The initial calibration (PC0421A1) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0421B1) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 675667 (CN93253)

CN93811, CN93812, CN93818, CN93819, CN93820, CN93821, CN93822

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration



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RCP Certification Report

May 09, 2023

SDG I.D.: GCN93805

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 675634 (Samples: CN93805, CN93811, CN93818, CN93819, CN93820, CN93821, CN93822): -----

The LCS/LCSD is below the method criteria. A low bias for these analytes is possible. (3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline)

The QC recoveries for one analyte is below the method criteria. A low bias is likely. (Benzidine)

QC Batch 675751 (Samples: CN93806, CN93807, CN93809, CN93810, CN93814, CN93815, CN93817): -----

The blank surrogate was below criteria. A low bias for the blank is possible. (% Nitrobenzene-d5(CN93493))

The LCS recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Naphthalene)

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s). No significant variability is suspected. (Naphthalene)

QC Batch 675901 (Samples: CN93812): -----

The LCS/LCSD recovery for one or more analytes is below the method criteria. A low bias for these analytes is possible. (2,4-Dinitrophenol, Benzoic Acid)

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s). No significant variability is suspected. (2,4-Dinitrotoluene)

Instrument:

CHEM07 05/02/23-1

Matt Richard, Chemist 05/02/23

CN93805 (1X), CN93811 (1X), CN93818 (1X), CN93819 (1X), CN93820 (1X), CN93821 (1X), CN93822 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_SPLIT_0422):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.049 (0.05),

Hexachlorobenzene 0.074 (0.1)

The following compounds did not meet a minimum response factors: % 2,4,6-Tribromophenol 0.049 (0.05)

Continuing Calibration Verification (CHEM07/0502_05-7_SPLIT_0422):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: Hexachlorobenzene 0.077 (0.1)

The following compounds did not meet minimum response factors: None.



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RCP Certification Report

May 09, 2023

SDG I.D.: GCN93805

SVOA Narration

CHEM19 05/03/23-1 Matt Richard, Chemist 05/03/23

CN93806 (1X), CN93807 (1X), CN93809 (1X), CN93810 (1X), CN93814 (1X), CN93815 (1X), CN93817 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0503_05-19_BN_0419):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM29 05/03/23-1 Matt Richard, Chemist 05/03/23

CN93812 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_SPLIT_0501):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.076 (0.1), Hexachlorobenzene 0.089 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0503_05-29_SPLIT_0501):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Nitroaniline 31%L (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.059 (0.1), Hexachlorobenzene 0.091 (0.1)

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 675634 (CN93692)

CN93805, CN93811, CN93818, CN93819, CN93820, CN93821, CN93822

All LCS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(33%), 3-Nitroaniline(27%), 4-Chloroaniline(15%), Benzidine(<10%)

All LCS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(32%), 3-Nitroaniline(30%), 4-



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RCP Certification Report

May 09, 2023

SDG I.D.: GCN93805

SVOA Narration

Chloroaniline(17%), Benzidine(<10%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 675751 (CN93493)

CN93806, CN93807, CN93809, CN93810, CN93814, CN93815, CN93817

All LCS recoveries were within 40 - 140 with the following exceptions: Naphthalene(36%)

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: Naphthalene(30.6%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 675901 (CN93943)

CN93812

All LCS recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(18%), Benzoic Acid(24%)

All LCSD recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(21%), Benzoic Acid(20%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrotoluene(30.6%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 675889H: -----

The QC recoveries are below the lower range. A low bias is possible. (Bromomethane)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM03 04/30/23-1 Harry Mullin, Chemist 04/30/23

CN93805 (1X), CN93806 (1X), CN93807 (1X), CN93808 (1X), CN93812 (1X), CN93813 (1X), CN93814 (1X), CN93815 (1X), CN93816 (1X), CN93819 (1X, 50X)

Initial Calibration Evaluation (CHEM03/VT-L042823):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 21% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0430_02-VT-L042823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 05/01/23-2 Harry Mullin, Chemist 05/01/23



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RCP Certification Report

May 09, 2023

SDG I.D.: GCN93805

VOA Narration

CN93811 (1X), CN93818 (1X), CN93820 (1X), CN93821 (1X), CN93822 (1X), CN93824 (1X), CN93825 (50X)

Initial Calibration Evaluation (CHEM26/VT-050123):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: Tetrachloroethene 0.190 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0501_21-VT-050123):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 675889 (CN93947) CHEM26 5/1/2023-2

CN93811(1X), CN93818(1X), CN93820(1X), CN93821(1X), CN93822(1X), CN93824(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 675889H (CN93947) CHEM26 5/1/2023-2

CN93825(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(66%), Chloroethane(24%), Trichlorofluoromethane(22%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(22%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QC (Site Specific):

Batch 675567 (CN93819) CHEM03 4/30/2023-1

CN93805(1X), CN93806(1X), CN93807(1X), CN93808(1X), CN93812(1X), CN93813(1X), CN93814(1X), CN93815(1X), CN93816(1X), CN93819(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: None.

All MSD recoveries were within 70 - 130 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration



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RCP Certification Report

May 09, 2023

SDG I.D.: GCN93805

The samples were received at 1.8C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes No
 Coolant: IPK ICE
 Temp / 20 °C Pg 1 of 1

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 4/28/23
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT ETPH (DPH METHOD)	VOCs (EPA 8260/5035)	1,4-Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total RCRA 8 Metals	Total RSR 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) methanol (2) H ₂ O	GL Soil container (8) oz	GL Soil container (16) oz	40 ml VOA Vial (1) As is (1) HCl	PL As is (1) H ₂ SO ₄	PL H ₂ SO ₄ (1) 250ml (1) 500ml (1) 1000ml	PL HNO ₃ 250ml	Bacteria Bottle with/wo	Bacteria Bottle as is	Hold		
93817	B-18(8-10)	S	4/28/23	1400	X			X																			
93818	B-82(1-3)	S	4/28/23	1120	X	B	X			X			X														
93819	B-83(0.5-2.5)	S	4/28/23	0940	X	X		X		X			X														
93820	B-93(1-2.5)	S	4/28/23	1050	X	X		X		X			X														
93821	B-99(5-6)	S	4/28/23	1005	X	X	X	X					X														
93822	B-100(8-10)	S	4/28/23	1340	X	X	X	X					X														
93823	B-121(1-3)	S	4/28/23	1150	X																						
93824	T8042873L					X																					
93825	T8042873H					X																					

Relinquished by: [Signature] Date: 4/28/23 Time: 3:15
 Accepted by: [Signature] Date: 4/28/23 Time: 15:58

Comments, Special Requirements or Regulations:
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

RI
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQuIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

State where samples were collected: CT

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted. *SURCHARGE APPLIES

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, May 02, 2023 12:34 PM
To: Sarah Bell
Cc: Casey Watts
Subject: Laboratory Report Correction
Attachments: Sample Acknowledgement.pdf; Sample Acknowledgement.pdf

Hi Sarah,
Lab reports GCN93805 and GCN93817 should be combined into one report deliverable for the 4/28/2023 collection. Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II

Tighe&Bond

o. 203.712.1106 | m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com





Friday, May 12, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCN94953
Sample ID#s: CN94953 - CN94971

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 12, 2023

SDG I.D.: GCN94953

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-4 (8-10)	CN94953	SOIL
B-19 (13-15)	CN94954	SOIL
B-20 (6-8)	CN94955	SOIL
DUP-2	CN94956	SOIL
B-21 (8-10)	CN94957	SOIL
B-22 (8-10)	CN94958	SOIL
B-23 (8-10)	CN94959	SOIL
B-25 (6-8)	CN94960	SOIL
B-26 (8-10)	CN94961	SOIL
B-27 (10-12)	CN94962	SOIL
B-28 (10-12)	CN94963	SOIL
B-29 (8-10)	CN94964	SOIL
B-43 (6-8)	CN94965	SOIL
B-43 (13-15)	CN94966	SOIL
B-91 (3-5)	CN94967	SOIL
B-105 (3-5)	CN94968	SOIL
DUP-3	CN94969	SOIL
TB050123L	CN94970	SOIL
TB050123H	CN94971	SOIL



Environmental Laboratories, Inc.

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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

8:10
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94953

Project ID: BRAINARD AIRPORT
 Client ID: B-4 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Arsenic	1.51	0.75	mg/Kg	1	05/04/23	IE	SW6010D
Barium	22.2	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Beryllium	< 0.30	0.30	mg/Kg	1	05/04/23	IE	SW6010D
Cadmium	0.40	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Chromium	10.2	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Copper	10.2	0.8	mg/kg	1	05/04/23	IE	SW6010D
Mercury	0.12	0.03	mg/Kg	2	05/02/23	AL1	SW7471B
Nickel	11.5	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Lead	7.34	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	05/04/23	IE	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/04/23	IE	SW6010D
Thallium	< 3.4	3.4	mg/Kg	1	05/04/23	IE	SW6010D
Vanadium	11.6	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Zinc	35.2	0.8	mg/Kg	1	05/04/23	IE	SW6010D
Percent Solid	84		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Mercury Digestion	Completed				05/02/23	D/D	SW7471B
Extraction of ETPH	Completed				05/03/23	MO/M	SW3546
Soil Extraction for SVOA	Completed				05/04/23	MO/R/M	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	82		%	1	05/05/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	82		%	1	05/05/23	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	0.58	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	290	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	92		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dinitrophenol	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Nitroaniline	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitrophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
3-Nitroaniline	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
4-Nitroaniline	ND	630	ug/Kg	1	05/05/23	KCA	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Acetophenone	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Aniline	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benz(a)anthracene	470	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(a)pyrene	510	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(b)fluoranthene	520	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(ghi)perylene	300	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzoic acid	ND	780	ug/Kg	1	05/05/23	KCA	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Carbazole	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Chrysene	450	270	ug/Kg	1	05/05/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Di-n-butylphthalate	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Fluoranthene	950	270	ug/Kg	1	05/05/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	300	270	ug/Kg	1	05/05/23	KCA	SW8270D
Isophorone	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Pentachloronitrobenzene	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachlorophenol	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Phenanthrene	760	270	ug/Kg	1	05/05/23	KCA	SW8270D
Phenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Pyrene	830	270	ug/Kg	1	05/05/23	KCA	SW8270D
Pyridine	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83		%	1	05/05/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	05/05/23	KCA	30 - 130 %
% 2-Fluorophenol	62		%	1	05/05/23	KCA	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/05/23	KCA	30 - 130 %
% Phenol-d5	67		%	1	05/05/23	KCA	30 - 130 %
% Terphenyl-d14	67		%	1	05/05/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

10:10
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94954

Project ID: BRAINARD AIRPORT
 Client ID: B-19 (13-15)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/03/23	MO/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	77		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	71		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	130000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
1,2-Dibromoethane	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	3100	ug/Kg	500	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	37000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
2-Hexanone	ND	7000	ug/Kg	500	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	14000	ug/Kg	500	05/08/23	JLI	SW8260C
Acetone	ND	140000	ug/Kg	500	05/08/23	JLI	SW8260C
Acrylonitrile	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
Benzene	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
Bromobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Bromochloromethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
Bromoform	ND	800	ug/Kg	500	05/08/23	JLI	SW8260C
Bromomethane	ND	1400	ug/Kg	500	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
Chlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Chloroethane	ND	1500	ug/Kg	500	05/08/23	JLI	SW8260C
Chloroform	ND	1200	ug/Kg	500	05/08/23	JLI	SW8260C
Chloromethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
Dibromomethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Ethylbenzene	45000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
Hexachlorobutadiene	ND	1500	ug/Kg	500	05/08/23	JLI	SW8260C
Isopropylbenzene	4400	3400	ug/Kg	500	05/08/23	JLI	SW8260C
m&p-Xylene	140000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	20000	ug/Kg	500	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	6800	ug/Kg	500	05/08/23	JLI	SW8260C
Methylene chloride	ND	1400	ug/Kg	500	05/08/23	JLI	SW8260C
Naphthalene	23000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
n-Butylbenzene	3500	3400	ug/Kg	500	05/08/23	JLI	SW8260C
n-Propylbenzene	20000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
o-Xylene	30000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
p-Isopropyltoluene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
sec-Butylbenzene	1500	1400	ug/Kg	500	05/08/23	JLI	SW8260C
Styrene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	1700	ug/Kg	500	05/08/23	JLI	SW8260C
Toluene	1500	1400	ug/Kg	500	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	170000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	6800	ug/Kg	500	05/08/23	JLI	SW8260C
Trichloroethene	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	6800	ug/Kg	500	05/08/23	JLI	SW8260C
Vinyl chloride	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (500x)	99		%	500	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene (500x)	96		%	500	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane (500x)	97		%	500	05/08/23	JLI	70 - 130 %
% Toluene-d8 (500x)	95		%	500	05/08/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (1000x)	99		%	1000	05/03/23	JLI	70 - 130 %
% Bromofluorobenzene (1000x)	98		%	1000	05/03/23	JLI	70 - 130 %
% Dibromofluoromethane (1000x)	90		%	1000	05/03/23	JLI	70 - 130 %
% Toluene-d8 (1000x)	99		%	1000	05/03/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	51		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	77		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

9:15
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94955

Project ID: BRAINARD AIRPORT
 Client ID: B-20 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.02	0.36	mg/Kg	1	05/04/23	IE	SW6010D
Percent Solid	95		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/03/23	MO/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	70		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	70		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/03/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/03/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/03/23	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon Disulfide	6.6	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	05/03/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	330	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	430	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	550	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	290	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	370	240	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	550	240	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	290	240	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	520	240	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	53		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	34		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	58		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

9:16
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94956

Project ID: BRAINARD AIRPORT
 Client ID: DUP-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	12.7	0.31	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	96		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	47		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	60		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	280	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	86		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	310	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	380	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	270	240	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	400	240	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	360	240	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	39		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	24		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	48		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

9:30
10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94957

Project ID: BRAINARD AIRPORT
Client ID: B-21 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	13.0	0.32	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	91		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	80		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.46	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	23	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	230	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	260	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	330	250	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	340	250	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	66		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	70		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date Time
05/01/23 9:45
05/01/23 10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94958

Project ID: BRAINARD AIRPORT
Client ID: B-22 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.72	0.47	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	66		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	75	mg/Kg	1	05/08/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/08/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	97		%	1	05/08/23	JRB	50 - 150 %
% Terphenyl (surr)	81		%	1	05/08/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.66	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	330	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	92		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	64		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	18		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	71		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date Time

05/01/23 9:55
05/01/23 10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94959

Project ID: BRAINARD AIRPORT
Client ID: B-23 (8-10)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Percent Solid (73%) and Extraction of ETPH (Completed).

TPH by GC (Extractable Products)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Ext. Petroleum H.C. (C9-C36) and Identification.

QA/QC Surrogates

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include % COD (surr) and % Terphenyl (surr).

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Handwritten signature of Phyllis Shiller

Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date Time
05/01/23 12:00
05/01/23 10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94960

Project ID: BRAINARD AIRPORT
Client ID: B-25 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		05/01/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/08/23	B/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	67		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/05/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Anthracene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Chrysene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Fluorene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Pyrene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	05/08/23	HM	30 - 130 %
% Nitrobenzene-d5	75		%	1	05/08/23	HM	30 - 130 %
% Terphenyl-d14	68		%	1	05/08/23	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

14:00
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94961

Project ID: BRAINARD AIRPORT
 Client ID: B-26 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	8.20	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	89		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	88		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	84		%	1	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.49	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	24	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	240	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	2.9	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	61		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	80		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date Time

05/01/23 13:45
 05/01/23 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94962

Project ID: BRAINARD AIRPORT
 Client ID: B-27 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2.87	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	78		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	66		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	280	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	92		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	64		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

13:20
10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94963

Project ID: BRAINARD AIRPORT
Client ID: B-28 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	69		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	72	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	79		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	81		%	1	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	0.66	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	330	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	91		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director
May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

11:40
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94964

Project ID: BRAINARD AIRPORT
 Client ID: B-29 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	66		%		05/01/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	74	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	60		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	62		%	1	05/06/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	84		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	88		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	78		%	1	05/06/23	KCA	30 - 130 %

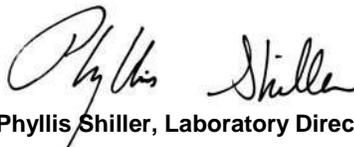
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

12:45
10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94965

Project ID: BRAINARD AIRPORT
Client ID: B-43 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	0.55	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	270	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C

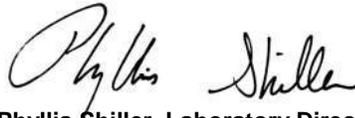
QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %

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Comments:

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Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

12:46
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94966

Project ID: BRAINARD AIRPORT
 Client ID: B-43 (13-15)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Arsenic	3.53	0.79	mg/Kg	1	05/05/23	IE	SW6010D
Barium	53.5	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Beryllium	< 0.32	0.32	mg/Kg	1	05/05/23	IE	SW6010D
Cadmium	0.43	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Chromium	32.1	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Copper	23.9	0.8	mg/kg	1	05/05/23	IE	SW6010D
Mercury	0.57	0.03	mg/Kg	2	05/02/23	AL1	SW7471B
Nickel	12.0	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Lead	47.0	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	05/05/23	IE	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/05/23	IE	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	05/05/23	IE	SW6010D
Vanadium	15.4	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Zinc	35.9	0.8	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	85		%		05/01/23	CV	SW846-%Solid
Mercury Digestion	Completed				05/02/23	D/D	SW7471B
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for PCB	Completed				05/04/23	MO/R/Y	SW3546
Soil Extraction for SVOA	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	110		%	5	05/05/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	84		%	5	05/05/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	49		%	10	05/05/23	SC	30 - 150 %
% DCBP (Confirmation)	41		%	10	05/05/23	SC	30 - 150 %
% TCMX	53		%	10	05/05/23	SC	30 - 150 %
% TCMX (Confirmation)	49		%	10	05/05/23	SC	30 - 150 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dinitrophenol	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Methylnaphthalene	340	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Nitroaniline	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
3-Nitroaniline	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	05/06/23	KCA	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	450	270	ug/Kg	1	05/06/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	1100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Acetophenone	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Aniline	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	1800	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	3000	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	2100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	2700	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	970	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	1100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzoic acid	ND	780	ug/Kg	1	05/06/23	KCA	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Carbazole	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	3000	270	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	340	270	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Di-n-butylphthalate	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	6500	270	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	1900	270	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Isophorone	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	670	270	ug/Kg	1	05/06/23	KCA	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Pentachloronitrobenzene	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	1100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Phenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	6600	270	ug/Kg	1	05/06/23	KCA	SW8270D
Pyridine	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	05/06/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	05/06/23	KCA	30 - 130 %
% 2-Fluorophenol	70		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/06/23	KCA	30 - 130 %
% Phenol-d5	78		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	82		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

11:25
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94967

Project ID: BRAINARD AIRPORT
 Client ID: B-91 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	5100	650	mg/Kg	10	05/06/23	JRB	CTETPH
Identification	**		mg/Kg	10	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	Diluted Out		%	10	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	Diluted Out		%	10	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	150	ug/Kg	50	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	1300	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	150	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	73	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
2-Hexanone	ND	3600	ug/Kg	50	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	3600	ug/Kg	50	05/03/23	HM	SW8260C
Acetone	ND	36000	ug/Kg	50	05/03/23	HM	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/03/23	HM	SW8260C
Benzene	230	200	ug/Kg	50	05/03/23	HM	SW8260C
Bromobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Bromochloromethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/03/23	HM	SW8260C
Bromoform	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Bromomethane	ND	700	ug/Kg	50	05/03/23	HM	SW8260C
Carbon Disulfide	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Chlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Chloroethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Chloroform	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Chloromethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Dibromochloromethane	ND	150	ug/Kg	50	05/03/23	HM	SW8260C
Dibromomethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Ethylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Isopropylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
m&p-Xylene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	4400	ug/Kg	50	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1500	ug/Kg	50	05/03/23	HM	SW8260C
Methylene chloride	ND	1000	ug/Kg	50	05/03/23	HM	SW8260C
Naphthalene	77000	15000	ug/Kg	1000	05/03/23	HM	SW8260C
n-Butylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
n-Propylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
o-Xylene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Styrene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Tetrachloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	800	ug/Kg	50	05/03/23	HM	SW8260C
Toluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Total Xylenes	ND	730	ug/Kg	50	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	1500	ug/Kg	50	05/03/23	HM	SW8260C
Trichloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1500	ug/Kg	50	05/03/23	HM	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/03/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	05/03/23	HM	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	05/03/23	HM	70 - 130 %
% Dibromofluoromethane (50x)	87		%	50	05/03/23	HM	70 - 130 %
% Toluene-d8 (50x)	97		%	50	05/03/23	HM	70 - 130 %
% 1,2-dichlorobenzene-d4 (1000x)	100		%	1000	05/03/23	HM	70 - 130 %
% Bromofluorobenzene (1000x)	98		%	1000	05/03/23	HM	70 - 130 %
% Dibromofluoromethane (1000x)	88		%	1000	05/03/23	HM	70 - 130 %
% Toluene-d8 (1000x)	98		%	1000	05/03/23	HM	70 - 130 %

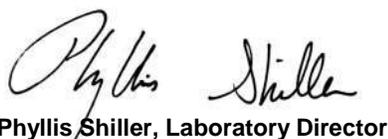
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
 Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

TPH Comment:
 **Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

11:10
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94968

Project ID: BRAINARD AIRPORT
 Client ID: B-105 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA	Completed				05/05/23	MO/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	110	53	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	117		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	80		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.47	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
2-Chlorotoluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
2-Hexanone	ND	23	ug/Kg	1	05/03/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
4-Chlorotoluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/03/23	JLI	SW8260C
Acetone	ND	230	ug/Kg	1	05/03/23	JLI	SW8260C
Acrylonitrile	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Benzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromochloromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromodichloromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromoform	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromomethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon Disulfide	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon tetrachloride	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Chlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroform	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Chloromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromomethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Ethylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Isopropylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
m&p-Xylene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Methylene chloride	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Naphthalene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
n-Butylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
n-Propylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
o-Xylene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
sec-Butylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Styrene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
tert-Butylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrachloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Toluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Trichloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Vinyl chloride	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/03/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	70	ug/kg	1	05/03/23	JLI	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Nitroaniline	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	05/06/23	KCA	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	360	250	ug/Kg	1	05/06/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Aniline	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	250	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	1100	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	1300	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	1700	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	610	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	610	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzoic acid	ND	700	ug/Kg	1	05/06/23	KCA	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Carbazole	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	1200	250	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Di-n-butylphthalate	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	1900	250	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	700	250	ug/Kg	1	05/06/23	KCA	SW8270D
Isophorone	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	920	250	ug/Kg	1	05/06/23	KCA	SW8270D
Phenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	1800	250	ug/Kg	1	05/06/23	KCA	SW8270D
Pyridine	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	94		%	1	05/06/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	83		%	1	05/06/23	KCA	30 - 130 %
% 2-Fluorophenol	76		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	83		%	1	05/06/23	KCA	30 - 130 %
% Phenol-d5	83		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	80		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

11:11
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94969

Project ID: BRAINARD AIRPORT
 Client ID: DUP-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA	Completed				05/05/23	MO/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	110	51	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	120		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	78		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.44	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
2-Chlorotoluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
2-Hexanone	ND	22	ug/Kg	1	05/03/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
4-Chlorotoluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	ug/Kg	1	05/03/23	JLI	SW8260C
Acetone	ND	220	ug/Kg	1	05/03/23	JLI	SW8260C
Acrylonitrile	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Benzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromochloromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromodichloromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromoform	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromomethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon Disulfide	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon tetrachloride	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Chlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroform	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Chloromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromochloromethane	ND	2.6	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromomethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Ethylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Isopropylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
m&p-Xylene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	26	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Methylene chloride	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Naphthalene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
n-Butylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
n-Propylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
o-Xylene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
sec-Butylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Styrene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
tert-Butylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrachloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Toluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Trichloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Vinyl chloride	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/03/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	05/03/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	66	ug/kg	1	05/03/23	JLI	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Nitroaniline	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	05/05/23	KCA	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Acenaphthylene	550	250	ug/Kg	1	05/05/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Aniline	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Anthracene	400	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benz(a)anthracene	2000	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(a)pyrene	2100	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(b)fluoranthene	2700	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(ghi)perylene	1100	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(k)fluoranthene	1000	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzoic acid	ND	700	ug/Kg	1	05/05/23	KCA	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Carbazole	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Chrysene	2200	250	ug/Kg	1	05/05/23	KCA	SW8270D
Dibenz(a,h)anthracene	300	250	ug/Kg	1	05/05/23	KCA	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Di-n-butylphthalate	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Fluoranthene	3700	250	ug/Kg	1	05/05/23	KCA	SW8270D
Fluorene	260	250	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1200	250	ug/Kg	1	05/05/23	KCA	SW8270D
Isophorone	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Phenanthrene	1400	250	ug/Kg	1	05/05/23	KCA	SW8270D
Phenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Pyrene	3400	250	ug/Kg	1	05/05/23	KCA	SW8270D
Pyridine	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	85		%	1	05/05/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	74		%	1	05/05/23	KCA	30 - 130 %
% 2-Fluorophenol	68		%	1	05/05/23	KCA	30 - 130 %
% Nitrobenzene-d5	72		%	1	05/05/23	KCA	30 - 130 %
% Phenol-d5	75		%	1	05/05/23	KCA	30 - 130 %
% Terphenyl-d14	74		%	1	05/05/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94970

Project ID: BRAINARD AIRPORT
Client ID: TB050123L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/01/23		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	250	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	05/03/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	90		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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Analysis Report

May 12, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94971

Project ID: BRAINARD AIRPORT
Client ID: TB050123H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/01/23		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/03/23	HM	SW8260C
Acetone	ND	5000	ug/Kg	50	05/03/23	HM	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/03/23	HM	SW8260C
Benzene	ND	200	ug/Kg	50	05/03/23	HM	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/03/23	HM	SW8260C
Bromoform	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Chloroform	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/03/23	HM	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/03/23	HM	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Styrene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/03/23	HM	SW8260C
Toluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/03/23	HM	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	05/03/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	96		%	50	05/03/23	HM	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	05/03/23	HM	70 - 130 %
% Toluene-d8 (50x)	96		%	50	05/03/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

May 12, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 12, 2023

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 675587 (mg/kg), QC Sample No: CN94641 2X (CN94953, CN94966)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	102	106	3.8	102	103	1.0	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 675748 (mg/kg), QC Sample No: CN94956 (CN94956, CN94957, CN94958, CN94961, CN94962, CN94966)

ICP Metals - Soil

Antimony	BRL	3.3	<3.1	<3.2	NC	108	118	8.8	88.7			75 - 125	35
Arsenic	BRL	0.67	1.42	1.34	NC	98.6	108	9.1	95.1			75 - 125	35
Barium	BRL	0.33	62.0	73.2	16.6	102	112	9.3	114			75 - 125	35
Beryllium	BRL	0.27	<0.25	0.30	NC	99.4	109	9.2	89.5			75 - 125	35
Cadmium	BRL	0.33	0.67	0.79	NC	96.0	107	10.8	95.9			75 - 125	35
Chromium	BRL	0.33	21.8	21.5	1.40	101	112	10.3	95.4			75 - 125	35
Copper	BRL	0.67	31.1	36.8	16.8	101	111	9.4	92.8			75 - 125	35
Lead	BRL	0.33	12.7	9.04	33.7	93.4	102	8.8	97.9			75 - 125	35
Nickel	BRL	0.33	13.5	16.0	16.9	98.7	109	9.9	97.0			75 - 125	35
Selenium	BRL	1.3	<1.3	<1.3	NC	105	114	8.2	90.7			75 - 125	35
Silver	BRL	0.33	<0.31	<0.32	NC	101	109	7.6	95.1			75 - 125	35
Thallium	BRL	3.0	<2.8	<2.9	NC	98.5	107	8.3	93.4			75 - 125	35
Vanadium	BRL	0.33	48.1	51.2	6.20	102	112	9.3	100			75 - 125	35
Zinc	BRL	0.67	41.6	49.0	16.3	103	111	7.5	97.9			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 675747 (mg/kg), QC Sample No: CN95974 (CN94953, CN94955)

ICP Metals - Soil

Antimony	BRL	3.3	<3.7	<3.9	NC	107	102	4.8	98.4			75 - 125	35
Arsenic	BRL	0.67	1.17	0.94	NC	103	97.7	5.3	95.4			75 - 125	35
Barium	BRL	0.33	9.5	8.27	13.8	106	100	5.8	101			75 - 125	35
Beryllium	BRL	0.27	<0.30	<0.31	NC	104	98.1	5.8	94.0			75 - 125	35
Cadmium	BRL	0.33	<0.37	<0.39	NC	103	96.2	6.8	93.0			75 - 125	35
Chromium	BRL	0.33	4.54	4.31	5.20	104	99.3	4.6	97.8			75 - 125	35
Copper	BRL	0.67	4.4	6.28	35.2	107	100	6.8	101			75 - 125	35
Lead	BRL	0.33	2.9	3.02	NC	99.1	92.4	7.0	98.6			75 - 125	35
Nickel	BRL	0.33	3.23	3.58	10.3	104	97.9	6.0	96.6			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.6	NC	106	102	3.8	98.4			75 - 125	35
Silver	BRL	0.33	<0.37	<0.39	NC	105	97.9	7.0	98.2			75 - 125	35
Thallium	BRL	3.0	<1.5	<3.5	NC	104	97.7	6.2	92.6			75 - 125	35
Vanadium	BRL	0.33	5.35	4.56	15.9	105	100	4.9	98.2			75 - 125	35
Zinc	BRL	0.67	27.0	27.5	1.80	109	101	7.6	97.2			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 12, 2023

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 675993 (mg/Kg), QC Sample No: CN94680 (CN94953, CN94954, CN94955)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	89	72	21.1	73	87	17.5	60 - 120	30
% COD (surr)	82	%	124	107	14.7	106	124	15.7	50 - 150	30
% Terphenyl (surr)	86	%	117	95	20.8	95	115	19.0	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 676002 (mg/Kg), QC Sample No: CN94960 (CN94956, CN94957, CN94958, CN94959, CN94960, CN94961, CN94962, CN94963, CN94964, CN94966, CN94967, CN94968, CN94969)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	85	95	11.1	67	104	43.3	60 - 120	30	r
% COD (surr)	77	%	90	105	15.4	75	111	38.7	50 - 150	30	r
% Terphenyl (surr)	76	%	85	90	5.7	65	97	39.5	50 - 150	30	r

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 676172 (ug/Kg), QC Sample No: CN95280 2X (CN94966)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	93	94	1.1	87	103	16.8	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	97	109	11.7	90	105	15.4	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	80	%	101	110	8.5	85	110	25.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	89	%	106	109	2.8	90	104	14.4	30 - 150	30
% TCMX (Surrogate Rec)	43	%	71	70	1.4	68	73	7.1	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	66	%	87	84	3.5	83	85	2.4	30 - 150	30

QA/QC Batch 676178 (ug/kg), QC Sample No: CN94953 (CN94953)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	64	55	15.1	61	56	8.5	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	65	56	14.9	56	58	3.5	40 - 140	30
1,2-Dichlorobenzene	ND	180	64	56	13.3	50	58	14.8	40 - 140	30
1,2-Diphenylhydrazine	ND	230	68	57	17.6	71	59	18.5	40 - 140	30
1,3-Dichlorobenzene	ND	230	62	55	12.0	49	57	15.1	40 - 140	30
1,4-Dichlorobenzene	ND	230	62	54	13.8	49	56	13.3	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	69	59	15.6	57	61	6.8	40 - 140	30
2,4,5-Trichlorophenol	ND	230	78	66	16.7	85	67	23.7	40 - 140	30

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
2,4,6-Trichlorophenol	ND	130	81	67	18.9	83	69	18.4	30 - 130	30	
2,4-Dichlorophenol	ND	130	76	63	18.7	73	65	11.6	30 - 130	30	
2,4-Dimethylphenol	ND	230	78	65	18.2	67	63	6.2	30 - 130	30	
2,4-Dinitrophenol	ND	230	113	101	11.2	119	98	19.4	30 - 130	30	
2,4-Dinitrotoluene	ND	130	85	74	13.8	93	74	22.8	30 - 130	30	
2,6-Dinitrotoluene	ND	130	79	67	16.4	86	69	21.9	40 - 140	30	
2-Chloronaphthalene	ND	230	69	57	19.0	69	60	14.0	40 - 140	30	
2-Chlorophenol	ND	230	73	60	19.5	64	62	3.2	30 - 130	30	
2-Methylnaphthalene	ND	230	70	59	17.1	67	60	11.0	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	71	59	18.5	64	60	6.5	40 - 140	30	
2-Nitroaniline	ND	330	95	79	18.4	110	82	29.2	40 - 140	30	
2-Nitrophenol	ND	230	98	82	17.8	83	83	0.0	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	76	63	18.7	72	65	10.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	52	38	31.1	70	59	17.1	40 - 140	30	l,r
3-Nitroaniline	ND	330	71	60	16.8	90	68	27.8	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	104	91	13.3	113	90	22.7	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	73	61	17.9	76	62	20.3	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	81	69	16.0	83	69	18.4	30 - 130	30	
4-Chloroaniline	ND	230	65	55	16.7	64	54	16.9	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	70	59	17.1	74	60	20.9	40 - 140	30	
4-Nitroaniline	ND	230	81	71	13.2	88	71	21.4	40 - 140	30	
4-Nitrophenol	ND	230	105	90	15.4	112	91	20.7	30 - 130	30	
Acenaphthene	ND	230	72	61	16.5	75	62	19.0	30 - 130	30	
Acenaphthylene	ND	130	66	55	18.2	69	57	19.0	40 - 140	30	
Acetophenone	ND	230	68	56	19.4	58	58	0.0	40 - 140	30	
Aniline	ND	330	98	88	10.8	47	84	56.5	40 - 140	30	r
Anthracene	ND	230	74	63	16.1	75	61	20.6	40 - 140	30	
Benz(a)anthracene	ND	230	69	58	17.3	65	55	16.7	40 - 140	30	
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	83	71	15.6	80	66	19.2	40 - 140	30	
Benzo(b)fluoranthene	ND	160	75	65	14.3	70	58	18.8	40 - 140	30	
Benzo(ghi)perylene	ND	230	78	67	15.2	75	62	19.0	40 - 140	30	
Benzo(k)fluoranthene	ND	230	72	62	14.9	71	57	21.9	40 - 140	30	
Benzoic Acid	ND	670	110	93	16.7	101	90	11.5	30 - 130	30	
Benzyl butyl phthalate	ND	230	77	65	16.9	81	66	20.4	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	68	57	17.6	63	60	4.9	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	72	61	16.5	55	63	13.6	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	77	64	18.4	82	64	24.7	40 - 140	30	
Carbazole	ND	230	73	63	14.7	78	63	21.3	40 - 140	30	
Chrysene	ND	230	73	61	17.9	70	57	20.5	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	77	66	15.4	82	64	24.7	40 - 140	30	
Dibenzofuran	ND	230	71	60	16.8	75	62	19.0	40 - 140	30	
Diethyl phthalate	ND	230	74	62	17.6	78	63	21.3	40 - 140	30	
Dimethylphthalate	ND	230	72	62	14.9	76	62	20.3	40 - 140	30	
Di-n-butylphthalate	ND	670	77	66	15.4	80	65	20.7	40 - 140	30	
Di-n-octylphthalate	ND	230	85	72	16.6	92	73	23.0	40 - 140	30	
Fluoranthene	ND	230	75	64	15.8	64	55	15.1	40 - 140	30	
Fluorene	ND	230	73	61	17.9	77	64	18.4	40 - 140	30	
Hexachlorobenzene	ND	130	73	61	17.9	75	61	20.6	40 - 140	30	
Hexachlorobutadiene	ND	230	66	57	14.6	54	59	8.8	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	65	55	16.7	54	54	0.0	40 - 140	30	
Hexachloroethane	ND	130	63	55	13.6	49	58	16.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	76	66	14.1	76	61	21.9	40 - 140	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Isophorone	ND	130	63	53	17.2	59	55	7.0	40 - 140	30
Naphthalene	ND	230	67	59	12.7	63	60	4.9	40 - 140	30
Nitrobenzene	ND	130	75	63	17.4	63	64	1.6	40 - 140	30
N-Nitrosodimethylamine	ND	230	65	55	16.7	54	57	5.4	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	69	57	19.0	62	60	3.3	40 - 140	30
N-Nitrosodiphenylamine	ND	130	69	59	15.6	76	61	21.9	40 - 140	30
Pentachloronitrobenzene	ND	230	82	72	13.0	87	71	20.3	40 - 140	30
Pentachlorophenol	ND	230	91	78	15.4	91	76	18.0	30 - 130	30
Phenanthrene	ND	130	72	62	14.9	64	51	22.6	40 - 140	30
Phenol	ND	230	77	63	20.0	70	63	10.5	30 - 130	30
Pyrene	ND	230	75	64	15.8	66	58	12.9	30 - 130	30
Pyridine	ND	230	26	26	0.0	16	28	54.5	40 - 140	30
% 2,4,6-Tribromophenol	74	%	85	72	16.6	85	73	15.2	30 - 130	30
% 2-Fluorobiphenyl	57	%	67	56	17.9	66	58	12.9	30 - 130	30
% 2-Fluorophenol	54	%	71	57	21.9	60	60	0.0	30 - 130	30
% Nitrobenzene-d5	55	%	75	60	22.2	61	63	3.2	30 - 130	30
% Phenol-d5	58	%	72	60	18.2	66	61	7.9	30 - 130	30
% Terphenyl-d14	62	%	69	59	15.6	72	58	21.5	30 - 130	30

l,m,r

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676227 (ug/kg), QC Sample No: CN94960 (CN94954, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94964)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	64	59	8.1	65	50	26.1	40 - 140	30
Acenaphthene	ND	230	59	57	3.4	62	48	25.5	30 - 130	30
Acenaphthylene	ND	230	55	53	3.7	58	45	25.2	40 - 140	30
Anthracene	ND	230	63	60	4.9	64	53	18.8	40 - 140	30
Benz(a)anthracene	ND	230	59	56	5.2	59	51	14.5	40 - 140	30
Benzo(a)pyrene	ND	230	70	66	5.9	71	60	16.8	40 - 140	30
Benzo(b)fluoranthene	ND	230	67	60	11.0	63	55	13.6	40 - 140	30
Benzo(ghi)perylene	ND	230	77	71	8.1	76	64	17.1	40 - 140	30
Benzo(k)fluoranthene	ND	230	59	54	8.8	58	48	18.9	40 - 140	30
Chrysene	ND	230	62	59	5.0	62	53	15.7	40 - 140	30
Dibenz(a,h)anthracene	ND	230	76	69	9.7	73	62	16.3	40 - 140	30
Fluoranthene	ND	230	63	58	8.3	64	54	16.9	40 - 140	30
Fluorene	ND	230	67	64	4.6	70	55	24.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	78	72	8.0	75	64	15.8	40 - 140	30
Naphthalene	ND	230	70	64	9.0	68	46	38.6	40 - 140	30
Phenanthrene	ND	230	63	59	6.6	65	52	22.2	40 - 140	30
Pyrene	ND	230	62	58	6.7	63	53	17.2	30 - 130	30
% 2-Fluorobiphenyl	63	%	58	54	7.1	60	46	26.4	30 - 130	30
% Nitrobenzene-d5	65	%	63	59	6.6	61	43	34.6	30 - 130	30
% Terphenyl-d14	64	%	61	55	10.3	61	49	21.8	30 - 130	30

r

r

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676228 (ug/kg), QC Sample No: CN94969 (CN94966, CN94968, CN94969)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	74	71	4.1	63	67	6.2	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	73	64	13.1	62	65	4.7	40 - 140	30
1,2-Dichlorobenzene	ND	180	70	57	20.5	58	63	8.3	40 - 140	30

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Diphenylhydrazine	ND	230	78	77	1.3	62	62	0.0	40 - 140	30	
1,3-Dichlorobenzene	ND	230	69	55	22.6	57	61	6.8	40 - 140	30	
1,4-Dichlorobenzene	ND	230	68	55	21.1	57	61	6.8	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	78	67	15.2	66	71	7.3	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	92	93	1.1	78	83	6.2	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	94	94	0.0	79	82	3.7	30 - 130	30	
2,4-Dichlorophenol	ND	130	85	83	2.4	73	77	5.3	30 - 130	30	
2,4-Dimethylphenol	ND	230	82	79	3.7	73	76	4.0	30 - 130	30	
2,4-Dinitrophenol	ND	230	135	149	9.9	87	85	2.3	30 - 130	30	l
2,4-Dinitrotoluene	ND	130	85	92	7.9	77	79	2.6	30 - 130	30	
2,6-Dinitrotoluene	ND	130	80	86	7.2	72	78	8.0	40 - 140	30	
2-Chloronaphthalene	ND	230	79	77	2.6	66	69	4.4	40 - 140	30	
2-Chlorophenol	ND	230	79	72	9.3	66	71	7.3	30 - 130	30	
2-Methylnaphthalene	ND	230	77	74	4.0	63	68	7.6	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	76	74	2.7	64	68	6.1	40 - 140	30	
2-Nitroaniline	ND	330	100	119	17.4	80	80	0.0	40 - 140	30	
2-Nitrophenol	ND	230	92	92	0.0	90	99	9.5	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	83	81	2.4	69	74	7.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	58	84	36.6	40	25	46.2	40 - 140	30	m,r
3-Nitroaniline	ND	330	60	94	44.2	58	55	5.3	40 - 140	30	r
4,6-Dinitro-2-methylphenol	ND	230	112	126	11.8	83	87	4.7	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	86	84	2.4	71	74	4.1	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	91	90	1.1	76	80	5.1	30 - 130	30	
4-Chloroaniline	ND	230	64	53	18.8	44	32	31.6	40 - 140	30	m,r
4-Chlorophenyl phenyl ether	ND	230	83	82	1.2	69	72	4.3	40 - 140	30	
4-Nitroaniline	ND	230	85	91	6.8	76	82	7.6	40 - 140	30	
4-Nitrophenol	ND	230	125	132	5.4	117	115	1.7	30 - 130	30	l
Acenaphthene	ND	230	83	82	1.2	70	74	5.6	30 - 130	30	
Acenaphthylene	ND	130	76	74	2.7	57	66	14.6	40 - 140	30	
Acetophenone	ND	230	73	67	8.6	60	65	8.0	40 - 140	30	
Aniline	ND	330	116	<10	NC	79	73	7.9	40 - 140	30	l
Anthracene	ND	230	84	83	1.2	67	72	7.2	40 - 140	30	
Benz(a)anthracene	ND	230	80	79	1.3	44	64	37.0	40 - 140	30	r
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	97	94	3.1	52	73	33.6	40 - 140	30	r
Benzo(b)fluoranthene	ND	160	87	84	3.5	36	67	60.2	40 - 140	30	m,r
Benzo(ghi)perylene	ND	230	91	88	3.4	48	59	20.6	40 - 140	30	
Benzo(k)fluoranthene	ND	230	82	80	2.5	51	66	25.6	40 - 140	30	
Benzoic Acid	ND	670	109	120	9.6	100	112	11.3	30 - 130	30	
Benzyl butyl phthalate	ND	230	88	87	1.1	71	74	4.1	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	75	72	4.1	63	67	6.2	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	78	63	21.3	63	68	7.6	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	87	86	1.2	71	74	4.1	40 - 140	30	
Carbazole	ND	230	83	84	1.2	71	75	5.5	40 - 140	30	
Chrysene	ND	230	84	83	1.2	42	66	44.4	40 - 140	30	r
Dibenz(a,h)anthracene	ND	130	90	88	2.2	61	65	6.3	40 - 140	30	
Dibenzofuran	ND	230	81	80	1.2	67	71	5.8	40 - 140	30	
Diethyl phthalate	ND	230	84	84	0.0	69	72	4.3	40 - 140	30	
Dimethylphthalate	ND	230	86	86	0.0	69	72	4.3	40 - 140	30	
Di-n-butylphthalate	ND	670	88	86	2.3	70	74	5.6	40 - 140	30	
Di-n-octylphthalate	ND	230	99	98	1.0	81	85	4.8	40 - 140	30	
Fluoranthene	ND	230	86	85	1.2	32	68	72.0	40 - 140	30	m,r
Fluorene	ND	230	85	84	1.2	69	74	7.0	40 - 140	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Hexachlorobenzene	ND	130	82	80	2.5	66	70	5.9	40 - 140	30	
Hexachlorobutadiene	ND	230	74	63	16.1	64	68	6.1	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	73	69	5.6	<10	<10	NC	40 - 140	30	m
Hexachloroethane	ND	130	69	56	20.8	55	54	1.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	93	92	1.1	49	62	23.4	40 - 140	30	
Isophorone	ND	130	70	68	2.9	59	62	5.0	40 - 140	30	
Naphthalene	ND	230	72	65	10.2	58	63	8.3	40 - 140	30	
Nitrobenzene	ND	130	76	70	8.2	65	71	8.8	40 - 140	30	
N-Nitrosodimethylamine	ND	230	65	58	11.4	55	57	3.6	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	74	70	5.6	62	65	4.7	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	82	84	2.4	70	72	2.8	40 - 140	30	
Pentachloronitrobenzene	ND	230	88	89	1.1	74	61	19.3	40 - 140	30	
Pentachlorophenol	ND	230	99	97	2.0	85	91	6.8	30 - 130	30	
Phenanthrene	ND	130	83	82	1.2	66	79	17.9	40 - 140	30	
Phenol	ND	230	80	79	1.3	68	72	5.7	30 - 130	30	
Pyrene	ND	230	86	85	1.2	33	66	66.7	30 - 130	30	r
Pyridine	ND	230	62	<10	NC	43	<10	NC	40 - 140	30	l,m
% 2,4,6-Tribromophenol	87	%	94	92	2.2	79	79	0.0	30 - 130	30	
% 2-Fluorobiphenyl	72	%	78	75	3.9	65	68	4.5	30 - 130	30	
% 2-Fluorophenol	67	%	74	67	9.9	61	65	6.3	30 - 130	30	
% Nitrobenzene-d5	61	%	71	66	7.3	64	69	7.5	30 - 130	30	
% Phenol-d5	72	%	80	77	3.8	67	70	4.4	30 - 130	30	
% Terphenyl-d14	78	%	81	80	1.2	67	69	2.9	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676636 (ug/kg), QC Sample No: CN96298 (CN94960)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	67	71	5.8	57	44	25.7	40 - 140	30	
Acenaphthene	ND	230	64	73	13.1	54	57	5.4	30 - 130	30	
Acenaphthylene	ND	230	60	67	11.0	52	53	1.9	40 - 140	30	
Anthracene	ND	230	68	76	11.1	59	72	19.8	40 - 140	30	
Benz(a)anthracene	ND	230	63	72	13.3	56	68	19.4	40 - 140	30	
Benzo(a)pyrene	ND	230	73	86	16.4	64	78	19.7	40 - 140	30	
Benzo(b)fluoranthene	ND	230	66	75	12.8	58	71	20.2	40 - 140	30	
Benzo(ghi)perylene	ND	230	79	92	15.2	71	87	20.3	40 - 140	30	
Benzo(k)fluoranthene	ND	230	60	68	12.5	51	63	21.1	40 - 140	30	
Chrysene	ND	230	67	77	13.9	59	72	19.8	40 - 140	30	
Dibenz(a,h)anthracene	ND	230	77	88	13.3	68	82	18.7	40 - 140	30	
Fluoranthene	ND	230	65	74	12.9	58	72	21.5	40 - 140	30	
Fluorene	ND	230	72	83	14.2	64	72	11.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	79	92	15.2	70	83	17.0	40 - 140	30	
Naphthalene	ND	230	71	72	1.4	56	37	40.9	40 - 140	30	m,r
Phenanthrene	ND	230	67	76	12.6	58	72	21.5	40 - 140	30	
Pyrene	ND	230	62	71	13.5	56	72	25.0	30 - 130	30	
% 2-Fluorobiphenyl	81	%	60	66	9.5	51	46	10.3	30 - 130	30	
% Nitrobenzene-d5	81	%	61	60	1.7	49	36	30.6	30 - 130	30	r
% Terphenyl-d14	76	%	59	68	14.2	53	65	20.3	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 676168 (ug/kg), QC Sample No: CN95831 (CN94968, CN94969)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	113	113	0.0	94	94	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	102	98	4.0	90	92	2.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	103	100	3.0	<10	<10	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	5.0	102	101	1.0	64	64	0.0	70 - 130	30	m
1,1-Dichloroethane	ND	5.0	91	91	0.0	86	84	2.4	70 - 130	30	
1,1-Dichloroethene	ND	5.0	97	92	5.3	112	110	1.8	70 - 130	30	
1,1-Dichloropropene	ND	5.0	105	102	2.9	95	91	4.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	101	103	2.0	59	50	16.5	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	104	102	1.9	90	90	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	97	101	4.0	59	50	16.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	104	103	1.0	83	74	11.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	114	112	1.8	62	63	1.6	70 - 130	30	m
1,2-Dibromoethane	ND	5.0	108	106	1.9	101	101	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	100	99	1.0	76	71	6.8	70 - 130	30	
1,2-Dichloroethane	ND	5.0	96	95	1.0	91	91	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	99	0.0	97	95	2.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	106	104	1.9	82	74	10.3	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	100	100	0.0	77	70	9.5	70 - 130	30	
1,3-Dichloropropane	ND	5.0	103	101	2.0	98	98	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	98	98	0.0	75	69	8.3	70 - 130	30	m
1,4-dioxane	ND	100	96	99	3.1	112	114	1.8	70 - 130	30	
2,2-Dichloropropane	ND	5.0	94	94	0.0	91	91	0.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	106	104	1.9	85	79	7.3	70 - 130	30	
2-Hexanone	ND	25	97	93	4.2	94	100	6.2	70 - 130	30	
2-Isopropyltoluene	ND	5.0	105	103	1.9	75	65	14.3	70 - 130	30	m
4-Chlorotoluene	ND	5.0	106	104	1.9	85	78	8.6	70 - 130	30	
4-Methyl-2-pentanone	ND	25	100	96	4.1	100	103	3.0	70 - 130	30	
Acetone	ND	10	70	71	1.4	115	125	8.3	70 - 130	30	
Acrylonitrile	ND	5.0	86	86	0.0	79	82	3.7	70 - 130	30	
Benzene	ND	1.0	105	103	1.9	99	97	2.0	70 - 130	30	
Bromobenzene	ND	5.0	104	103	1.0	89	86	3.4	70 - 130	30	
Bromochloromethane	ND	5.0	101	102	1.0	95	96	1.0	70 - 130	30	
Bromodichloromethane	ND	5.0	104	104	0.0	88	87	1.1	70 - 130	30	
Bromoform	ND	5.0	116	113	2.6	93	97	4.2	70 - 130	30	
Bromomethane	ND	5.0	85	81	4.8	71	70	1.4	70 - 130	30	
Carbon Disulfide	ND	5.0	87	86	1.2	68	66	3.0	70 - 130	30	m
Carbon tetrachloride	ND	5.0	102	103	1.0	86	85	1.2	70 - 130	30	
Chlorobenzene	ND	5.0	103	103	0.0	91	88	3.4	70 - 130	30	
Chloroethane	ND	5.0	86	87	1.2	81	81	0.0	70 - 130	30	
Chloroform	ND	5.0	98	97	1.0	89	92	3.3	70 - 130	30	
Chloromethane	ND	5.0	100	98	2.0	87	85	2.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	99	98	1.0	92	90	2.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	106	105	0.9	94	94	0.0	70 - 130	30	
Dibromochloromethane	ND	3.0	113	111	1.8	94	93	1.1	70 - 130	30	
Dibromomethane	ND	5.0	102	101	1.0	96	96	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	104	94	10.1	80	76	5.1	70 - 130	30	
Ethylbenzene	ND	1.0	107	106	0.9	93	88	5.5	70 - 130	30	
Hexachlorobutadiene	ND	5.0	103	100	3.0	42	30	33.3	70 - 130	30	m,r
Isopropylbenzene	ND	1.0	108	106	1.9	88	81	8.3	70 - 130	30	
m&p-Xylene	ND	2.0	105	104	1.0	90	86	4.5	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	BLK RL									
Methyl ethyl ketone	ND	5.0	80	80	0.0	83	90	8.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	89	88	1.1	90	91	1.1	70 - 130	30	
Methylene chloride	ND	5.0	86	84	2.4	84	84	0.0	70 - 130	30	
Naphthalene	ND	5.0	113	111	1.8	91	88	3.4	70 - 130	30	
n-Butylbenzene	ND	1.0	104	102	1.9	67	54	21.5	70 - 130	30	m
n-Propylbenzene	ND	1.0	105	104	1.0	83	74	11.5	70 - 130	30	
o-Xylene	ND	2.0	106	106	0.0	92	88	4.4	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	104	1.9	75	63	17.4	70 - 130	30	m
sec-Butylbenzene	ND	1.0	107	104	2.8	74	63	16.1	70 - 130	30	m
Styrene	ND	5.0	106	104	1.9	90	87	3.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	109	106	2.8	80	70	13.3	70 - 130	30	
Tetrachloroethene	ND	5.0	103	100	3.0	88	82	7.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	91	88	3.4	89	93	4.4	70 - 130	30	
Toluene	ND	1.0	106	104	1.9	97	94	3.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	93	91	2.2	81	81	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	111	111	0.0	89	91	2.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	89	87	2.3	74	76	2.7	70 - 130	30	
Trichloroethene	ND	5.0	104	101	2.9	171	166	3.0	70 - 130	30	m
Trichlorofluoromethane	ND	5.0	96	94	2.1	83	81	2.4	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	89	83	7.0	77	73	5.3	70 - 130	30	
Vinyl chloride	ND	5.0	95	93	2.1	83	82	1.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	101	99	2.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	99	%	101	100	1.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	93	%	95	96	1.0	69	69	0.0	70 - 130	30	m
% Toluene-d8	99	%	99	99	0.0	99	99	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 676168H (ug/kg), QC Sample No: CN95831 50X (CN94967 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	117	115	1.7	83	103	21.5	70 - 130	30	
1,1,1-Trichloroethane	ND	250	105	100	4.9	76	95	22.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	110	108	1.8	92	105	13.2	70 - 130	30	
1,1,2-Trichloroethane	ND	250	110	108	1.8	89	101	12.6	70 - 130	30	
1,1-Dichloroethane	ND	250	95	95	0.0	80	91	12.9	70 - 130	30	
1,1-Dichloroethene	ND	250	75	77	2.6	62	73	16.3	70 - 130	30	m
1,1-Dichloropropene	ND	250	113	113	0.0	96	107	10.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	129	128	0.8	106	125	16.5	70 - 130	30	
1,2,3-Trichloropropane	ND	250	111	104	6.5	94	102	8.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	132	130	1.5	107	126	16.3	70 - 130	30	l
1,2,4-Trimethylbenzene	ND	250	123	122	0.8	105	119	12.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	122	116	5.0	89	111	22.0	70 - 130	30	
1,2-Dibromoethane	ND	250	119	118	0.8	96	112	15.4	70 - 130	30	
1,2-Dichlorobenzene	ND	250	117	117	0.0	97	111	13.5	70 - 130	30	
1,2-Dichloroethane	ND	250	103	104	1.0	84	96	13.3	70 - 130	30	
1,2-Dichloropropane	ND	250	108	108	0.0	89	101	12.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	123	123	0.0	104	119	13.5	70 - 130	30	
1,3-Dichlorobenzene	ND	250	121	121	0.0	99	115	15.0	70 - 130	30	
1,3-Dichloropropane	ND	250	114	112	1.8	94	107	12.9	70 - 130	30	
1,4-Dichlorobenzene	ND	250	119	118	0.8	97	112	14.4	70 - 130	30	
2,2-Dichloropropane	ND	250	96	96	0.0	69	90	26.4	70 - 130	30	m
2-Chlorotoluene	ND	250	121	121	0.0	103	118	13.6	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Hexanone	ND	1300	96	94	2.1	86	98	13.0	70 - 130	30	
2-Isopropyltoluene	ND	250	120	121	0.8	103	117	12.7	70 - 130	30	
4-Chlorotoluene	ND	250	123	124	0.8	103	119	14.4	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	101	99	2.0	86	95	9.9	70 - 130	30	
Acetone	ND	500	59	59	0.0	55	59	7.0	70 - 130	30	l,m
Acrylonitrile	ND	250	90	86	4.5	76	87	13.5	70 - 130	30	
Benzene	ND	250	113	112	0.9	95	107	11.9	70 - 130	30	
Bromobenzene	ND	250	118	119	0.8	101	114	12.1	70 - 130	30	
Bromochloromethane	ND	250	111	109	1.8	87	102	15.9	70 - 130	30	
Bromodichloromethane	ND	250	108	104	3.8	77	92	17.8	70 - 130	30	
Bromoform	ND	250	111	103	7.5	73	90	20.9	70 - 130	30	
Bromomethane	ND	250	65	64	1.6	50	59	16.5	70 - 130	30	l,m
Carbon Disulfide	ND	250	68	69	1.5	54	65	18.5	70 - 130	30	l,m
Carbon tetrachloride	ND	250	94	91	3.2	61	77	23.2	70 - 130	30	m
Chlorobenzene	ND	250	118	118	0.0	98	112	13.3	70 - 130	30	
Chloroethane	ND	250	24	24	0.0	19	22	14.6	70 - 130	30	l,m
Chloroform	ND	250	106	101	4.8	86	97	12.0	70 - 130	30	
Chloromethane	ND	250	103	100	3.0	80	88	9.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	109	107	1.9	86	99	14.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	112	111	0.9	81	98	19.0	70 - 130	30	
Dibromochloromethane	ND	150	116	110	5.3	80	99	21.2	70 - 130	30	
Dibromomethane	ND	250	111	107	3.7	90	102	12.5	70 - 130	30	
Dichlorodifluoromethane	ND	250	97	95	2.1	69	80	14.8	70 - 130	30	m
Ethylbenzene	ND	250	121	122	0.8	103	118	13.6	70 - 130	30	
Hexachlorobutadiene	ND	250	124	126	1.6	106	124	15.7	70 - 130	30	
Isopropylbenzene	ND	250	122	123	0.8	105	120	13.3	70 - 130	30	
m&p-Xylene	ND	250	121	120	0.8	102	117	13.7	70 - 130	30	
Methyl ethyl ketone	ND	250	86	82	4.8	74	77	4.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	99	96	3.1	79	89	11.9	70 - 130	30	
Methylene chloride	ND	250	89	87	2.3	74	84	12.7	70 - 130	30	
n-Butylbenzene	ND	250	128	128	0.0	106	123	14.8	70 - 130	30	
n-Propylbenzene	ND	250	123	123	0.0	105	120	13.3	70 - 130	30	
o-Xylene	ND	250	122	121	0.8	102	116	12.8	70 - 130	30	
p-Isopropyltoluene	ND	250	126	126	0.0	106	121	13.2	70 - 130	30	
sec-Butylbenzene	ND	250	123	122	0.8	105	119	12.5	70 - 130	30	
Styrene	ND	250	122	120	1.7	100	115	14.0	70 - 130	30	
tert-Butylbenzene	ND	250	121	122	0.8	105	119	12.5	70 - 130	30	
Tetrachloroethene	ND	250	115	116	0.9	98	113	14.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	96	91	5.3	83	89	7.0	70 - 130	30	
Toluene	ND	250	116	116	0.0	98	111	12.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	97	97	0.0	80	91	12.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	118	114	3.4	80	100	22.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	92	91	1.1	62	82	27.8	70 - 130	30	m
Trichloroethene	ND	250	110	112	1.8	96	109	12.7	70 - 130	30	
Trichlorofluoromethane	ND	250	21	20	4.9	18	20	10.5	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	80	80	0.0	64	75	15.8	70 - 130	30	m
Vinyl chloride	ND	250	95	93	2.1	75	86	13.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	99	0.0	97	98	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	101	100	1.0	98	98	0.0	70 - 130	30	
% Dibromofluoromethane	90	%	93	91	2.2	90	92	2.2	70 - 130	30	
% Toluene-d8	98	%	98	98	0.0	98	97	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Comment:											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.											
QA/QC Batch 675913 (ug/kg), QC Sample No: CN95953 (CN94953, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94963, CN94965, CN94970)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	111	119	7.0	106	112	5.5	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	101	105	3.9	100	103	3.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	97	103	6.0	95	99	4.1	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	98	104	5.9	98	102	4.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	88	91	3.4	90	93	3.3	70 - 130	30	
1,1-Dichloroethene	ND	5.0	92	97	5.3	95	98	3.1	70 - 130	30	
1,1-Dichloropropene	ND	5.0	101	106	4.8	103	109	5.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	99	103	4.0	78	75	3.9	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	98	104	5.9	97	100	3.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	93	96	3.2	79	76	3.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	99	104	4.9	98	100	2.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	115	126	9.1	102	107	4.8	70 - 130	30	
1,2-Dibromoethane	ND	5.0	105	112	6.5	102	105	2.9	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	95	100	5.1	88	90	2.2	70 - 130	30	
1,2-Dichloroethane	ND	5.0	94	98	4.2	92	98	6.3	70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	102	3.0	98	101	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	100	104	3.9	100	103	3.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	96	99	3.1	90	93	3.3	70 - 130	30	
1,3-Dichloropropane	ND	5.0	101	106	4.8	99	102	3.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	93	96	3.2	87	91	4.5	70 - 130	30	
2,2-Dichloropropane	ND	5.0	99	104	4.9	89	94	5.5	70 - 130	30	
2-Chlorotoluene	ND	5.0	100	105	4.9	98	101	3.0	70 - 130	30	
2-Hexanone	ND	25	94	102	8.2	84	86	2.4	70 - 130	30	
2-Isopropyltoluene	ND	5.0	101	105	3.9	98	100	2.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	100	104	3.9	97	100	3.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	96	103	7.0	91	97	6.4	70 - 130	30	
Acetone	ND	10	70	72	2.8	61	66	7.9	70 - 130	30	m
Acrylonitrile	ND	5.0	82	87	5.9	63	65	3.1	70 - 130	30	m
Benzene	ND	1.0	101	106	4.8	101	105	3.9	70 - 130	30	
Bromobenzene	ND	5.0	100	106	5.8	97	100	3.0	70 - 130	30	
Bromochloromethane	ND	5.0	99	103	4.0	100	104	3.9	70 - 130	30	
Bromodichloromethane	ND	5.0	101	106	4.8	98	105	6.9	70 - 130	30	
Bromoform	ND	5.0	112	121	7.7	101	109	7.6	70 - 130	30	
Bromomethane	ND	5.0	82	88	7.1	84	86	2.4	70 - 130	30	
Carbon Disulfide	ND	5.0	85	88	3.5	84	89	5.8	70 - 130	30	
Carbon tetrachloride	ND	5.0	100	106	5.8	98	104	5.9	70 - 130	30	
Chlorobenzene	ND	5.0	100	106	5.8	99	102	3.0	70 - 130	30	
Chloroethane	ND	5.0	90	86	4.5	91	96	5.3	70 - 130	30	
Chloroform	ND	5.0	93	100	7.3	96	97	1.0	70 - 130	30	
Chloromethane	ND	5.0	99	103	4.0	99	104	4.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	98	99	1.0	99	106	6.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	105	109	3.7	98	104	5.9	70 - 130	30	
Dibromochloromethane	ND	3.0	111	117	5.3	105	110	4.7	70 - 130	30	
Dibromomethane	ND	5.0	100	104	3.9	96	102	6.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	102	107	4.8	109	113	3.6	70 - 130	30	
Ethylbenzene	ND	1.0	104	109	4.7	103	107	3.8	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Hexachlorobutadiene	ND	5.0	95	99	4.1	84	77	8.7	70 - 130	30
Isopropylbenzene	ND	1.0	104	108	3.8	103	107	3.8	70 - 130	30
m&p-Xylene	ND	2.0	101	107	5.8	102	105	2.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	81	87	7.1	75	74	1.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	89	93	4.4	88	91	3.4	70 - 130	30
Methylene chloride	ND	5.0	84	87	3.5	84	87	3.5	70 - 130	30
Naphthalene	ND	5.0	114	120	5.1	89	88	1.1	70 - 130	30
n-Butylbenzene	ND	1.0	96	99	3.1	95	97	2.1	70 - 130	30
n-Propylbenzene	ND	1.0	100	105	4.9	101	105	3.9	70 - 130	30
o-Xylene	ND	2.0	102	108	5.7	102	107	4.8	70 - 130	30
p-Isopropyltoluene	ND	1.0	100	104	3.9	100	101	1.0	70 - 130	30
sec-Butylbenzene	ND	1.0	101	105	3.9	101	102	1.0	70 - 130	30
Styrene	ND	5.0	101	107	5.8	97	101	4.0	70 - 130	30
tert-Butylbenzene	ND	1.0	104	109	4.7	102	105	2.9	70 - 130	30
Tetrachloroethene	ND	5.0	99	104	4.9	100	106	5.8	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	85	92	7.9	84	88	4.7	70 - 130	30
Toluene	ND	1.0	102	107	4.8	102	107	4.8	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	90	94	4.3	90	94	4.3	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	110	115	4.4	100	107	6.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	87	93	6.7	75	79	5.2	70 - 130	30
Trichloroethene	ND	5.0	101	106	4.8	99	103	4.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	92	97	5.3	97	101	4.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	85	89	4.6	92	92	0.0	70 - 130	30
Vinyl chloride	ND	5.0	94	98	4.2	96	100	4.1	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	100	99	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	99	%	100	102	2.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	92	%	94	96	2.1	95	95	0.0	70 - 130	30
% Toluene-d8	99	%	99	99	0.0	99	100	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 675913H (ug/kg), QC Sample No: CN95953 50X (CN94954 (1000X) , CN94967 (1000X) , CN94971 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	122	118	3.3	109	115	5.4	70 - 130	30
1,1,1-Trichloroethane	ND	250	105	104	1.0	97	100	3.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	110	108	1.8	109	109	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	250	113	109	3.6	112	110	1.8	70 - 130	30
1,1-Dichloroethane	ND	250	99	95	4.1	96	99	3.1	70 - 130	30
1,1-Dichloroethene	ND	250	77	78	1.3	71	90	23.6	70 - 130	30
1,1-Dichloropropene	ND	250	116	113	2.6	115	117	1.7	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	128	128	0.0	125	122	2.4	70 - 130	30
1,2,3-Trichloropropane	ND	250	109	111	1.8	111	111	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	127	125	1.6	123	120	2.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	121	120	0.8	121	121	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	125	125	0.0	114	115	0.9	70 - 130	30
1,2-Dibromoethane	ND	250	121	120	0.8	118	117	0.9	70 - 130	30
1,2-Dichlorobenzene	ND	250	117	116	0.9	114	115	0.9	70 - 130	30
1,2-Dichloroethane	ND	250	106	104	1.9	107	106	0.9	70 - 130	30
1,2-Dichloropropane	ND	250	111	107	3.7	110	110	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	122	121	0.8	121	123	1.6	70 - 130	30
1,3-Dichlorobenzene	ND	250	119	117	1.7	118	118	0.0	70 - 130	30
1,3-Dichloropropane	ND	250	115	114	0.9	113	113	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	250	117	117	0.0	116	116	0.0	70 - 130	30	
2,2-Dichloropropane	ND	250	105	104	1.0	75	90	18.2	70 - 130	30	
2-Chlorotoluene	ND	250	121	120	0.8	119	122	2.5	70 - 130	30	
2-Hexanone	ND	1300	100	96	4.1	99	97	2.0	70 - 130	30	
2-Isopropyltoluene	ND	250	120	120	0.0	119	121	1.7	70 - 130	30	
4-Chlorotoluene	ND	250	122	121	0.8	123	122	0.8	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	101	99	2.0	104	102	1.9	70 - 130	30	
Acetone	ND	500	61	56	8.5	61	62	1.6	70 - 130	30	l,m
Acrylonitrile	ND	250	91	87	4.5	92	90	2.2	70 - 130	30	
Benzene	ND	250	115	113	1.8	115	116	0.9	70 - 130	30	
Bromobenzene	ND	250	120	118	1.7	118	120	1.7	70 - 130	30	
Bromochloromethane	ND	250	113	108	4.5	109	106	2.8	70 - 130	30	
Bromodichloromethane	ND	250	110	105	4.7	102	106	3.8	70 - 130	30	
Bromoform	ND	250	113	108	4.5	102	106	3.8	70 - 130	30	
Bromomethane	ND	250	67	67	0.0	61	70	13.7	70 - 130	30	l,m
Carbon Disulfide	ND	250	71	71	0.0	63	79	22.5	70 - 130	30	m
Carbon tetrachloride	ND	250	98	94	4.2	77	90	15.6	70 - 130	30	
Chlorobenzene	ND	250	118	117	0.9	117	118	0.9	70 - 130	30	
Chloroethane	ND	250	25	24	4.1	24	26	8.0	70 - 130	30	l,m
Chloroform	ND	250	108	105	2.8	103	105	1.9	70 - 130	30	
Chloromethane	ND	250	110	106	3.7	106	107	0.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	108	107	0.9	107	107	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	115	112	2.6	104	109	4.7	70 - 130	30	
Dibromochloromethane	ND	150	119	114	4.3	108	111	2.7	70 - 130	30	
Dibromomethane	ND	250	113	109	3.6	111	110	0.9	70 - 130	30	
Dichlorodifluoromethane	ND	250	112	110	1.8	106	114	7.3	70 - 130	30	
Ethylbenzene	ND	250	122	120	1.7	120	122	1.7	70 - 130	30	
Hexachlorobutadiene	ND	250	124	125	0.8	118	124	5.0	70 - 130	30	
Isopropylbenzene	ND	250	124	122	1.6	120	125	4.1	70 - 130	30	
m&p-Xylene	ND	250	121	119	1.7	119	120	0.8	70 - 130	30	
Methyl ethyl ketone	ND	250	84	81	3.6	85	87	2.3	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	101	98	3.0	98	97	1.0	70 - 130	30	
Methylene chloride	ND	250	92	89	3.3	89	91	2.2	70 - 130	30	
Naphthalene	ND	250	139	137	1.4	134	130	3.0	70 - 130	30	l,m
n-Butylbenzene	ND	250	123	122	0.8	122	123	0.8	70 - 130	30	
n-Propylbenzene	ND	250	123	121	1.6	122	125	2.4	70 - 130	30	
o-Xylene	ND	250	121	121	0.0	119	121	1.7	70 - 130	30	
p-Isopropyltoluene	ND	250	124	124	0.0	123	124	0.8	70 - 130	30	
sec-Butylbenzene	ND	250	122	122	0.0	121	124	2.4	70 - 130	30	
Styrene	ND	250	121	119	1.7	119	120	0.8	70 - 130	30	
tert-Butylbenzene	ND	250	122	122	0.0	121	124	2.4	70 - 130	30	
Tetrachloroethene	ND	250	118	115	2.6	116	116	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	96	90	6.5	97	93	4.2	70 - 130	30	
Toluene	ND	250	119	115	3.4	117	118	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	100	96	4.1	96	99	3.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	124	117	5.8	105	111	5.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	95	90	5.4	81	85	4.8	70 - 130	30	
Trichloroethene	ND	250	115	112	2.6	112	116	3.5	70 - 130	30	
Trichlorofluoromethane	ND	250	21	20	4.9	21	27	25.0	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	82	81	1.2	75	90	18.2	70 - 130	30	
Vinyl chloride	ND	250	101	97	4.0	98	102	4.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	99	98	1.0	70 - 130	30	
% Bromofluorobenzene	98	%	99	99	0.0	99	98	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Dibromofluoromethane	88	%	93	92	1.1	92	91	1.1	70 - 130	30
% Toluene-d8	99	%	98	98	0.0	100	99	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 676797H (ug/kg), QC Sample No: CN97754 50X (CN94954 (500X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	107	106	0.9	94	100	6.2	70 - 130	30	
1,1,1-Trichloroethane	ND	250	105	103	1.9	93	98	5.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	103	103	0.0	91	99	8.4	70 - 130	30	
1,1,2-Trichloroethane	ND	250	97	98	1.0	88	96	8.7	70 - 130	30	
1,1-Dichloroethane	ND	250	101	99	2.0	90	96	6.5	70 - 130	30	
1,1-Dichloroethene	ND	250	96	93	3.2	85	89	4.6	70 - 130	30	
1,1-Dichloropropene	ND	250	112	110	1.8	100	106	5.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	107	110	2.8	87	98	11.9	70 - 130	30	
1,2,3-Trichloropropane	ND	250	95	95	0.0	85	92	7.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	113	114	0.9	93	102	9.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	109	109	0.0	88	99	11.8	70 - 130	30	
1,2-Dibromoethane	ND	250	104	105	1.0	94	99	5.2	70 - 130	30	
1,2-Dichlorobenzene	ND	250	104	103	1.0	93	99	6.3	70 - 130	30	
1,2-Dichloroethane	ND	250	97	97	0.0	87	93	6.7	70 - 130	30	
1,2-Dichloropropane	ND	250	100	101	1.0	91	97	6.4	70 - 130	30	
1,3-Dichlorobenzene	ND	250	107	106	0.9	94	100	6.2	70 - 130	30	
1,3-Dichloropropane	ND	250	104	104	0.0	94	101	7.2	70 - 130	30	
1,4-Dichlorobenzene	ND	250	106	104	1.9	93	98	5.2	70 - 130	30	
2,2-Dichloropropane	ND	250	105	104	1.0	90	96	6.5	70 - 130	30	
2-Chlorotoluene	ND	250	109	107	1.9	98	103	5.0	70 - 130	30	
2-Hexanone	ND	1300	101	102	1.0	90	98	8.5	70 - 130	30	
2-Isopropyltoluene	ND	250	110	108	1.8	99	104	4.9	70 - 130	30	
4-Chlorotoluene	ND	250	109	108	0.9	97	102	5.0	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	96	97	1.0	85	94	10.1	70 - 130	30	
Acetone	ND	500	74	69	7.0	70	76	8.2	70 - 130	30	l
Acrylonitrile	ND	250	93	92	1.1	84	91	8.0	70 - 130	30	
Benzene	ND	250	106	105	0.9	96	103	7.0	70 - 130	30	
Bromobenzene	ND	250	106	104	1.9	95	101	6.1	70 - 130	30	
Bromochloromethane	ND	250	97	98	1.0	88	95	7.7	70 - 130	30	
Bromodichloromethane	ND	250	100	100	0.0	87	95	8.8	70 - 130	30	
Bromoform	ND	250	108	106	1.9	87	97	10.9	70 - 130	30	
Bromomethane	ND	250	78	78	0.0	65	74	12.9	70 - 130	30	m
Carbon Disulfide	ND	250	86	84	2.4	74	78	5.3	70 - 130	30	
Carbon tetrachloride	ND	250	106	105	0.9	88	96	8.7	70 - 130	30	
Chlorobenzene	ND	250	105	105	0.0	96	101	5.1	70 - 130	30	
Chloroethane	ND	250	43	42	2.4	37	40	7.8	70 - 130	30	l,m
Chloroform	ND	250	101	99	2.0	90	95	5.4	70 - 130	30	
Chloromethane	ND	250	103	101	2.0	88	97	9.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	103	103	0.0	94	99	5.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	103	104	1.0	91	99	8.4	70 - 130	30	
Dibromochloromethane	ND	150	106	105	0.9	89	97	8.6	70 - 130	30	
Dibromomethane	ND	250	99	99	0.0	88	96	8.7	70 - 130	30	
Dichlorodifluoromethane	ND	250	111	109	1.8	97	102	5.0	70 - 130	30	
Hexachlorobutadiene	ND	250	115	113	1.8	100	107	6.8	70 - 130	30	
Isopropylbenzene	ND	250	113	111	1.8	101	107	5.8	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Methyl ethyl ketone	ND	250	88	90	2.2	79	88	10.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	93	94	1.1	83	89	7.0	70 - 130	30
Methylene chloride	ND	250	80	79	1.3	74	78	5.3	70 - 130	30
n-Butylbenzene	ND	250	117	115	1.7	103	108	4.7	70 - 130	30
p-Isopropyltoluene	ND	250	115	112	2.6	102	108	5.7	70 - 130	30
sec-Butylbenzene	ND	250	114	111	2.7	102	108	5.7	70 - 130	30
Styrene	ND	250	105	105	0.0	96	101	5.1	70 - 130	30
tert-Butylbenzene	ND	250	112	109	2.7	101	106	4.8	70 - 130	30
Tetrachloroethene	ND	250	109	107	1.9	93	97	4.2	70 - 130	30
Tetrahydrofuran (THF)	ND	250	91	91	0.0	82	89	8.2	70 - 130	30
Toluene	ND	250	106	105	0.9	96	103	7.0	70 - 130	30
trans-1,2-Dichloroethene	ND	250	92	91	1.1	83	87	4.7	70 - 130	30
trans-1,3-Dichloropropene	ND	250	102	103	1.0	89	97	8.6	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	106	106	0.0	88	98	10.8	70 - 130	30
Trichloroethene	ND	250	107	105	1.9	95	100	5.1	70 - 130	30
Trichlorofluoromethane	ND	250	33	32	3.1	28	30	6.9	70 - 130	30
Trichlorotrifluoroethane	ND	250	93	90	3.3	81	85	4.8	70 - 130	30
Vinyl chloride	ND	250	99	98	1.0	89	95	6.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	98	1.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	93	%	98	98	0.0	98	99	1.0	70 - 130	30
% Dibromofluoromethane	94	%	97	97	0.0	94	95	1.1	70 - 130	30
% Toluene-d8	95	%	97	98	1.0	97	99	2.0	70 - 130	30

l,m

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

- l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
- m = This parameter is outside laboratory MS/MSD specified recovery limits.
- r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 May 12, 2023

Friday, May 12, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN94953 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN94954	\$8260MAR	Total Xylenes	CT / RSR GB (mg/kg) / Volatiles	170000	6800	19500	19500	ug/Kg
CN94954	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC I/C (mg/kg) / Volatiles	ND	340	67	67	ug/Kg
CN94954	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC RES (mg/kg) / APS Organics	ND	680	90	90	ug/Kg
CN94954	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	340	7	7	ug/Kg
CN94954	\$8260MAR	Vinyl chloride	CT / RSR DEC RES (mg/kg) / Volatiles	ND	340	320	320	ug/Kg
CN94954	\$8260MAR	Bromomethane	CT / RSR GB (mg/kg) / APS Organics	ND	1400	700	700	ug/Kg
CN94954	\$8260MAR	1,2,4-Trimethylbenzene	CT / RSR GB (mg/kg) / APS Organics	130000	6800	28000	28000	ug/Kg
CN94954	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	680	40	40	ug/Kg
CN94954	\$8260MAR	1,3,5-Trimethylbenzene	CT / RSR GB (mg/kg) / APS Organics	37000	6800	28000	28000	ug/Kg
CN94954	\$8260MAR	Tetrahydrofuran (THF)	CT / RSR GB (mg/kg) / APS Organics	ND	1700	800	800	ug/Kg
CN94954	\$8260MAR	n-Propylbenzene	CT / RSR GB (mg/kg) / APS Organics	20000	6800	10000	10000	ug/Kg
CN94954	\$8260MAR	Bromodichloromethane	CT / RSR GB (mg/kg) / APS Organics	ND	680	210	210	ug/Kg
CN94954	\$8260MAR	1,1,1,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	680	200	200	ug/Kg
CN94954	\$8260MAR	Methylene chloride	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN94954	\$8260MAR	Dibromochloromethane	CT / RSR GB (mg/kg) / Volatiles	ND	680	100	100	ug/Kg
CN94954	\$8260MAR	Benzene	CT / RSR GB (mg/kg) / Volatiles	ND	340	200	200	ug/Kg
CN94954	\$8260MAR	Acrylonitrile	CT / RSR GB (mg/kg) / Volatiles	ND	340	100	100	ug/Kg
CN94954	\$8260MAR	1,2-Dichloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	340	200	200	ug/Kg
CN94954	\$8260MAR	1,2-Dibromoethane	CT / RSR GB (mg/kg) / Volatiles	ND	340	100	100	ug/Kg
CN94954	\$8260MAR	1,1,2,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	680	100	100	ug/Kg
CN94954	\$8260MAR	Ethylbenzene	CT / RSR GB (mg/kg) / Volatiles	45000	6800	10100	10100	ug/Kg
CN94966	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3000	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2700	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3000	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2700	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3000	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CN94967	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC I/C (mg/kg) / Volatiles	ND	73	67	67	ug/Kg
CN94967	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC RES (mg/kg) / APS Organics	ND	150	90	90	ug/Kg
CN94967	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	73	7	7	ug/Kg
CN94967	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	150	40	40	ug/Kg
CN94967	\$8260MAR	Naphthalene	CT / RSR GB (mg/kg) / Semivolatiles	77000	15000	56000	56000	ug/Kg
CN94967	\$8260MAR	Benzene	CT / RSR GB (mg/kg) / Volatiles	230	200	200	200	ug/Kg
CN94967	\$8260MAR	Dibromochloromethane	CT / RSR GB (mg/kg) / Volatiles	ND	150	100	100	ug/Kg
CN94967	\$8260MAR	1,1,2,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	150	100	100	ug/Kg

Friday, May 12, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN94953 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN94967	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	5100	650	2500	2500	mg/Kg
CN94967	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	5100	650	500	500	mg/Kg
CN94967	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GB (mg/kg) / Pesticides/TPH	5100	650	2500	2500	mg/Kg
CN94968	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	1300	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1700	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1300	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1100	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2700	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2000	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1100	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	2200	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2000	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2700	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CN94971	\$8260MER	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	25	7	7	ug/Kg
CN94971	\$8260MER	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	50	40	40	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CN94953-CN94971

Sampling Date(s): 5/1/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the YPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director
Printed Name: Greg Lawrence **Date:** Friday, May 12, 2023
Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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RCP Certification Report

May 12, 2023

SDG I.D.: GCN94953

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Not all requested reporting levels were achieved due to the presence of target and non target compounds. Please refer to the Sample Criteria Exceedances section of this report.

Temperature above 6C:

The samples were received in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection. Therefore no significant bias is suspected.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676002 (Samples: CN94956, CN94957, CN94958, CN94959, CN94960, CN94961, CN94962, CN94963, CN94964, CN94966, CN94967, CN94968, CN94969): -----

The MS/MSD RPD exceeds the method criteria, therefore there may be variability in the reported result. (Ext. Petroleum H.C. (C9-C36), % COD (surr), % Terphenyl (surr))

Instrument:

AU-FID1 05/05/23-1

Jeff Bucko, Chemist 05/05/23

CN94966 (5X), CN94967 (10X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (505A006_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 05/04/23-1

Jeff Bucko, Chemist 05/04/23

CN94956 (1X), CN94960 (1X), CN94968 (1X), CN94969 (1X)

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (504A003A_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 05/04/23-1

Jeff Bucko, Chemist 05/04/23

CN94953 (1X), CN94954 (1X), CN94955 (1X), CN94957 (1X), CN94959 (1X), CN94961 (1X), CN94962 (1X), CN94963 (1X), CN94964 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (504A020_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 05/08/23-1

Jeff Bucko, Chemist 05/08/23

CN94958 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (508A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:



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RCP Certification Report

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SDG I.D.: GCN94953

ETPH Narration

Samples: CN94958
Preceding CC 508A003 - None.
Succeeding CC 508A016_1 - % Cod (surr) 31%H (30%), ETPH (C9-C36) 32%H (30%)

QC (Batch Specific):

Batch 675993 (CN94680)

CN94953, CN94954, CN94955

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QC (Site Specific):

Batch 676002 (CN94960)

CN94956, CN94957, CN94958, CN94959, CN94960, CN94961, CN94962, CN94963, CN94964, CN94966, CN94967, CN94968, CN94969

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % COD (surr)(38.7%), % Terphenyl (surr)(39.5%), Ext. Petroleum H.C. (C9-C36)(43.3%)
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/02/23 15:55 Alexander Latka, Chemist 05/02/23

CN94953, CN94966

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 675587 (CN94641)

CN94953, CN94966



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Certification Report

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SDG I.D.: GCN94953

Mercury Narration

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 05/04/23 11:18 Ian Enders, Chemist 05/04/23
CN94953, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94966

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 675747 (CN95974)

CN94953, CN94955

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 675748 (CN94956)

CN94956, CN94957, CN94958, CN94961, CN94962, CN94966

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD7 05/05/23-1 Saadia Chudary, Chemist 05/05/23

CN94966 (10X)

The initial calibration (PC0418AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0418BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CN94966



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SDG I.D.: GCN94953

PCB Narration

Preceding CC 505B016 - None.
Succeeding CC 505B029 - DCBP SURR -19%L (15%)

QC (Batch Specific):

Batch 676172 (CN95280)

CN94966

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration



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SDG I.D.: GCN94953

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676178 (Samples: CN94953): -----

The LCSD recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (3,3"-Dichlorobenzidine)

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s) so no significant variability is suspected. (3,3"-Dichlorobenzidine)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Aniline, Pyridine)

The QC recoveries for one analyte are below the method criteria. A low bias is likely. (Benzidine)

The QC recoveries for one analyte are below the lower range. A low bias is possible. (Pyridine)

QC Batch 676227 (Samples: CN94954, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94964): -----

The MS/MSD RPD exceeds the method criteria for one analyte and a surrogate, therefore there may be variability in the reported result. (Naphthalene, % Nitrobenzene-d5)

QC Batch 676228 (Samples: CN94966, CN94968, CN94969): -----

Several QC recoveries are below the lower range. A low bias is possible. (Pyridine)

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (2,4-Dinitrophenol, 4-Nitrophenol)

The LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Aniline)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is possible. (3,3"-Dichlorobenzidine, 4-Chloroaniline, Benzo(b)fluoranthene, Fluoranthene, Hexachlorocyclopentadiene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (3,3"-Dichlorobenzidine, 3-Nitroaniline)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (3,3"-Dichlorobenzidine, 4-Chloroaniline, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Pyrene)

The QC recoveries for one analyte are below the method criteria. A low bias is possible. (Benzidine)

Instrument:

CHEM06 05/04/23-2

Keith Aloisa, Chemist 05/04/23

CN94953 (1X, 1000X)



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RCP Certification Report

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SDG I.D.: GCN94953

SVOA Narration

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0504):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.047 (0.1), Hexachlorobenzene 0.091 (0.1)

The following compounds did not meet a minimum response factors: 2-Nitrophenol 0.047 (0.05)

Continuing Calibration Verification (CHEM06/0504_25-6_SPLIT_0504):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.053 (0.1), Hexachlorobenzene 0.092 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM06 05/05/23-1

Matt Richard, Chemist 05/05/23

CN94966 (1X), CN94968 (1X), CN94969 (1X, 1000X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0504):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.047 (0.1), Hexachlorobenzene 0.091 (0.1)

The following compounds did not meet a minimum response factors: 2-Nitrophenol 0.047 (0.05)

Continuing Calibration Verification (CHEM06/0505_03-6_SPLIT_0504):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.042 (0.1), Hexachlorobenzene 0.092 (0.1), Pentachloronitrobenzene 0.046 (0.05)

The following compounds did not meet minimum response factors: None.

CHEM19 05/05/23-1

Matt Richard, Chemist 05/05/23

CN94954 (1X), CN94955 (1X), CN94956 (1X), CN94957 (1X), CN94958 (1X), CN94961 (1X), CN94962 (1X), CN94964 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):

100% of target compounds met criteria.



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RCP Certification Report

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SDG I.D.: GCN94953

SVOA Narration

The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0505_08-19_BN_0419):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM19 05/08/23-1 Matt Richard, Chemist 05/08/23

CN94960 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0508_03-19_BN_0419):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 676636 (CN96298)

CN94960

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 676178 (CN94953)

CN94953

All LCS recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Pyridine(26%)
All LCSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(38%), Benzidine(<10%), Pyridine(26%)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 12, 2023

SDG I.D.: GCN94953

SVOA Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(31.1%)
All MS recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Pyridine(16%)
All MSD recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Pyridine(28%)
All MS/MSD RPDs were less than 30% with the following exceptions: Aniline(56.5%), Pyridine(54.5%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 676227 (CN94960)

CN94954, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94964
All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % Nitrobenzene-d5(34.6%), Naphthalene(38.6%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 676228 (CN94969)

CN94966, CN94968, CN94969
All LCS recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(135%), Benzidine(<10%)
All LCSD recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(149%), 4-Nitrophenol(132%), Aniline(<10%), Benzidine(<10%), Pyridine(<10%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(36.6%), 3-Nitroaniline(44.2%)
All MS recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Benzo(b)fluoranthene(36%), Fluoranthene(32%), Hexachlorocyclopentadiene(<10%)
All MSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(25%), 4-Chloroaniline(32%), Benzidine(<10%), Hexachlorocyclopentadiene(<10%), Pyridine(<10%)
All MS/MSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(46.2%), 4-Chloroaniline(31.6%), Benz(a)anthracene(37.0%), Benzo(a)pyrene(33.6%), Benzo(b)fluoranthene(60.2%), Chrysene(44.4%), Fluoranthene(72.0%), Pyrene(66.7%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 12, 2023

SDG I.D.: GCN94953

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 675913H: -----

Several QC recoveries are below the lower range. A low bias is possible. (Bromomethane)

The QC recoveries for one analyte are below the lower range. A low bias is possible. (Acetone)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

The QC recovery for one analyte is above the upper range, therefore a slight high bias is possible. (Naphthalene)

QC Batch 676168H: -----

The LCS recovery is above the upper range for one analyte that was not reported in the sample(s). No significant bias is suspected. (1,2,4-Trichlorobenzene)

The QC recoveries for one or more analytes is below the lower range. A low bias is possible. (Acetone, Bromomethane, Carbon Disulfide)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 676797H: -----

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Acetone)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM03 05/08/23-1

Jane Li, Chemist 05/08/23

CN94954 (500X)

Initial Calibration Evaluation (CHEM03/VT-L042823):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 21% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0508_02-VT-L042823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/02/23-2

Harry Mullin, Chemist 05/02/23



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 12, 2023

SDG I.D.: GCN94953

VOA Narration

CN94953 (1X), CN94954 (1000X), CN94955 (1X), CN94956 (1X), CN94957 (1X), CN94958 (1X), CN94961 (1X), CN94962 (1X), CN94963 (1X), CN94965 (1X), CN94967 (1000X), CN94970 (1X), CN94971 (50X)

Initial Calibration Evaluation (CHEM31/VT-L050123):

91% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 28% (20%), Acetone 24% (20%), Bromoform 27% (20%), Bromomethane 23% (20%), Chloroethane 28% (20%), Dibromochloromethane 21% (20%), Naphthalene 21% (20%), trans-1,3-Dichloropropene 27% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.081 (0.1), Bromoform 0.087 (0.1), Tetrachloroethene 0.145 (0.2), Trichloroethene 0.198 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0502_35-VT-L050123):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/03/23-1

Harry Mullin, Chemist 05/03/23

CN94967 (50X), CN94968 (1X), CN94969 (1X)

Initial Calibration Evaluation (CHEM31/VT-L050123):

91% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 28% (20%), Acetone 24% (20%), Bromoform 27% (20%), Bromomethane 23% (20%), Chloroethane 28% (20%), Dibromochloromethane 21% (20%), Naphthalene 21% (20%), trans-1,3-Dichloropropene 27% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.081 (0.1), Bromoform 0.087 (0.1), Tetrachloroethene 0.145 (0.2), Trichloroethene 0.198 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0503_02-VT-L050123):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Acetone 31%L (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 675913 (CN95953)

CHEM31 5/2/2023-2

CN94953(1X), CN94955(1X), CN94956(1X), CN94957(1X), CN94958(1X), CN94961(1X), CN94962(1X), CN94963(1X), CN94965(1X), CN94970(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 675913H (CN95953)

CHEM31 5/2/2023-2

CN94954(1000X), CN94967(1000X), CN94971(50X)



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RCP Certification Report

May 12, 2023

SDG I.D.: GCN94953

VOA Narration

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(61%), Bromomethane(67%), Chloroethane(25%), Naphthalene(139%), Trichlorofluoromethane(21%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(56%), Bromomethane(67%), Chloroethane(24%), Naphthalene(137%), Trichlorofluoromethane(20%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676168 (CN95831) CHEM31 5/3/2023-1

CN94968(1X), CN94969(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676168H (CN95831) CHEM31 5/3/2023-1

CN94967(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,2,4-Trichlorobenzene(132%), Acetone(59%), Bromomethane(65%), Carbon Disulfide(68%), Chloroethane(24%), Trichlorofluoromethane(21%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(59%), Bromomethane(64%), Carbon Disulfide(69%), Chloroethane(24%), Trichlorofluoromethane(20%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676797H (CN97754) CHEM03 5/8/2023-1

CN94954(500X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(43%), Trichlorofluoromethane(33%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(69%), Chloroethane(42%), Trichlorofluoromethane(32%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 16C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1.6 °C Pg 1 of 2
 Cooler: Yes No
 Coolant: IPK ICE No

Data Delivery/Contact Options:
 Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/1/23
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

PHOENIX USE ONLY					Analysis Request																						
SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT/EPH (DPH METHOD)	VOCS (EPA 8260/5035)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total RCRA-8 Metals	Total RSP-15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) methanol (2) H2O	GL Soil container (8) oz	40 ml VOA Vial (1) oz	GL Amber 1000ml (1) As is (1) HCl	PL As is (1) 250ml (1) 500ml (1) 1000ml	PL H2SO4 (1) 250ml (1) 500ml	PL HNO3 250ml	Bacteria Bottle witho	Bacteria Bottle as is	Hold		
94953	B-4(8-10)	S	5/1/23	0810	X	X	X		X							3	1										
94954	B-19(13-15)	S	5/1/23	1010	X	X		X								3	1										
94955	B-20(6-8)	S	5/1/23	0915	X	X		X		X						3	1										
94956	DUP-2	S	5/1/23	0914	X	X		X		X						3	1										
94957	B-21(8-10)	S	5/1/23	0930	X	X		X		X						3	1										
94958	B-22(8-10)	S	5/1/23	0945	X	X		X		X						3	1										
94959	B-23(8-10)	S	5/1/23	0955	X											2	1										
94960	B-25(6-8)	S	5/1/23	1200	X			X								3	1										
94961	B-26(8-10)	S	5/1/23	1400	X	X		X		X						3	1										
94962	B-27(10-12)	S	5/1/23	1345	X	X		X		X						3	1										
94963	B-28(10-12)	S	5/1/23	1320	X	X										3	1										
94964	B-29(8-10)	S	5/1/23	1140	X			X								1											

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 5/1/23 Time: 1611
511 1638

Comments, Special Requirements or Regulations: _____

Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.
 * SURCHARGE APPLIES

RI
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

State where samples were collected: CT

Data Format
 Excel
 PDF
 GIS/Key
 EQulS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

* SURCHARGE APPLIES



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes No
 Coolant: IPK ICE
 Temp: 16 °C Pg 2 of 2

Data Delivery/Contact Options:
 Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/1/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

Analysis Request	CT ETPH (DPH METHOD)	VOCs (EPA 8260/8035)	1,4 Dioxane	SVOCS (EPA 8270)	PAHs (EPA 8270)	Total RCRA 8 Metals	Total RSR 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) methanol (2) H2O	GL Soil container (8) oz	GL Soil container (16) oz	GL Amber 1000ml () As is () HCl	PL As is () 250ml () As is () H2SO4	PL H2SO4 () 250ml () 500ml () 1000ml	PL HNO3 250ml	Bacteria Bottle with/wo	Bacteria Bottle as is	Hold	
	X																					
	X	X			X				X													
	X	X																				
	X	X	X	X																		
	X	X	X	X																		
	X																					
	X																					

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
94965	B-43(6-8)	S	5/1/23	1245
94966	B-43(13-15)	S	5/1/23	1246
94967	B-91(3-5)	S	5/1/23	1125
94968	B-105(3-5)	S	5/1/23	1110
94969	DUP-3	S	5/1/23	1111
94970	B-55 TB05023L			
94971	TB05023K			

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 5/1/23 Time: 1611
 Date: 5/1 Time: 1638

Comments, Special Requirements or Regulations:
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

RI
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

State where samples were collected: CT

Data Format
 Excel
 PDF
 GIS/Key
 EQuIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

* SURCHARGE APPLIES

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.



Tuesday, June 27, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCN94953
Sample ID#s: CN94953 - CN94971

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

June 27, 2023

SDG I.D.: GCN94953

Version 2: Fixed Temp was typed incorrectly at 16 should have been 1.6



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 27, 2023

SDG I.D.: GCN94953

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-4 (8-10)	CN94953	SOIL
B-19 (13-15)	CN94954	SOIL
B-20 (6-8)	CN94955	SOIL
DUP-2	CN94956	SOIL
B-21 (8-10)	CN94957	SOIL
B-22 (8-10)	CN94958	SOIL
B-23 (8-10)	CN94959	SOIL
B-25 (6-8)	CN94960	SOIL
B-26 (8-10)	CN94961	SOIL
B-27 (10-12)	CN94962	SOIL
B-28 (10-12)	CN94963	SOIL
B-29 (8-10)	CN94964	SOIL
B-43 (6-8)	CN94965	SOIL
B-43 (13-15)	CN94966	SOIL
B-91 (3-5)	CN94967	SOIL
B-105 (3-5)	CN94968	SOIL
DUP-3	CN94969	SOIL
TB050123L	CN94970	SOIL
TB050123H	CN94971	SOIL



Environmental Laboratories, Inc.

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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

8:10
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94953

Project ID: BRAINARD AIRPORT
 Client ID: B-4 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Arsenic	1.51	0.75	mg/Kg	1	05/04/23	IE	SW6010D
Barium	22.2	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Beryllium	< 0.30	0.30	mg/Kg	1	05/04/23	IE	SW6010D
Cadmium	0.40	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Chromium	10.2	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Copper	10.2	0.8	mg/kg	1	05/04/23	IE	SW6010D
Mercury	0.12	0.03	mg/Kg	2	05/02/23	AL1	SW7471B
Nickel	11.5	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Lead	7.34	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	05/04/23	IE	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/04/23	IE	SW6010D
Thallium	< 3.4	3.4	mg/Kg	1	05/04/23	IE	SW6010D
Vanadium	11.6	0.38	mg/Kg	1	05/04/23	IE	SW6010D
Zinc	35.2	0.8	mg/Kg	1	05/04/23	IE	SW6010D
Percent Solid	84		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Mercury Digestion	Completed				05/02/23	D/D	SW7471B
Extraction of ETPH	Completed				05/03/23	MO/M	SW3546
Soil Extraction for SVOA	Completed				05/04/23	MO/R/M	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	82		%	1	05/05/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	82		%	1	05/05/23	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	0.58	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	290	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	92		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dinitrophenol	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
2-Nitroaniline	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitrophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
3-Nitroaniline	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
4-Nitroaniline	ND	630	ug/Kg	1	05/05/23	KCA	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Acetophenone	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Aniline	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benz(a)anthracene	470	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(a)pyrene	510	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(b)fluoranthene	520	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(ghi)perylene	300	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Benzoic acid	ND	780	ug/Kg	1	05/05/23	KCA	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Carbazole	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Chrysene	450	270	ug/Kg	1	05/05/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Di-n-butylphthalate	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Fluoranthene	950	270	ug/Kg	1	05/05/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	300	270	ug/Kg	1	05/05/23	KCA	SW8270D
Isophorone	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Pentachloronitrobenzene	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachlorophenol	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
Phenanthrene	760	270	ug/Kg	1	05/05/23	KCA	SW8270D
Phenol	ND	270	ug/Kg	1	05/05/23	KCA	SW8270D
Pyrene	830	270	ug/Kg	1	05/05/23	KCA	SW8270D
Pyridine	ND	390	ug/Kg	1	05/05/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83		%	1	05/05/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	05/05/23	KCA	30 - 130 %
% 2-Fluorophenol	62		%	1	05/05/23	KCA	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/05/23	KCA	30 - 130 %
% Phenol-d5	67		%	1	05/05/23	KCA	30 - 130 %
% Terphenyl-d14	67		%	1	05/05/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date Time

05/01/23 10:10
 05/01/23 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94954

Project ID: BRAINARD AIRPORT
 Client ID: B-19 (13-15)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/03/23	MO/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	77		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	71		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	130000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
1,2-Dibromoethane	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	3100	ug/Kg	500	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	37000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
2-Hexanone	ND	7000	ug/Kg	500	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	14000	ug/Kg	500	05/08/23	JLI	SW8260C
Acetone	ND	140000	ug/Kg	500	05/08/23	JLI	SW8260C
Acrylonitrile	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
Benzene	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
Bromobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Bromochloromethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
Bromoform	ND	800	ug/Kg	500	05/08/23	JLI	SW8260C
Bromomethane	ND	1400	ug/Kg	500	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
Chlorobenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Chloroethane	ND	1500	ug/Kg	500	05/08/23	JLI	SW8260C
Chloroform	ND	1200	ug/Kg	500	05/08/23	JLI	SW8260C
Chloromethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	680	ug/Kg	500	05/08/23	JLI	SW8260C
Dibromomethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Ethylbenzene	45000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
Hexachlorobutadiene	ND	1500	ug/Kg	500	05/08/23	JLI	SW8260C
Isopropylbenzene	4400	3400	ug/Kg	500	05/08/23	JLI	SW8260C
m&p-Xylene	140000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	20000	ug/Kg	500	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	6800	ug/Kg	500	05/08/23	JLI	SW8260C
Methylene chloride	ND	1400	ug/Kg	500	05/08/23	JLI	SW8260C
Naphthalene	23000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
n-Butylbenzene	3500	3400	ug/Kg	500	05/08/23	JLI	SW8260C
n-Propylbenzene	20000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
o-Xylene	30000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
p-Isopropyltoluene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
sec-Butylbenzene	1500	1400	ug/Kg	500	05/08/23	JLI	SW8260C
Styrene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	1700	ug/Kg	500	05/08/23	JLI	SW8260C
Toluene	1500	1400	ug/Kg	500	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	170000	6800	ug/Kg	1000	05/03/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	6800	ug/Kg	500	05/08/23	JLI	SW8260C
Trichloroethene	ND	1000	ug/Kg	500	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	3400	ug/Kg	500	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	6800	ug/Kg	500	05/08/23	JLI	SW8260C
Vinyl chloride	ND	340	ug/Kg	500	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (500x)	99		%	500	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene (500x)	96		%	500	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane (500x)	97		%	500	05/08/23	JLI	70 - 130 %
% Toluene-d8 (500x)	95		%	500	05/08/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (1000x)	99		%	1000	05/03/23	JLI	70 - 130 %
% Bromofluorobenzene (1000x)	98		%	1000	05/03/23	JLI	70 - 130 %
% Dibromofluoromethane (1000x)	90		%	1000	05/03/23	JLI	70 - 130 %
% Toluene-d8 (1000x)	99		%	1000	05/03/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	51		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	77		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

9:15
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94955

Project ID: BRAINARD AIRPORT
 Client ID: B-20 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.02	0.36	mg/Kg	1	05/04/23	IE	SW6010D
Percent Solid	95		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/03/23	MO/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	70		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	70		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/03/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/03/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/03/23	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon Disulfide	6.6	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/03/23	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/03/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	05/03/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	330	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	430	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	550	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	290	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	370	240	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	550	240	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	290	240	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	520	240	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	53		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	34		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	58		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date Time
05/01/23 9:16
05/01/23 10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94956

Project ID: BRAINARD AIRPORT
Client ID: DUP-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	12.7	0.31	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	96		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	47		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	60		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	280	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	86		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	310	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	380	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	270	240	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	400	240	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	360	240	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	39		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	24		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	48		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

9:30
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94957

Project ID: BRAINARD AIRPORT
 Client ID: B-21 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	13.0	0.32	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	91		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	80		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.46	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	23	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	230	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	9.2	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	4.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	260	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	330	250	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	340	250	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	66		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	70		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

9:45
10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94958

Project ID: BRAINARD AIRPORT
Client ID: B-22 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.72	0.47	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	66		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	75	mg/Kg	1	05/08/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/08/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	97		%	1	05/08/23	JRB	50 - 150 %
% Terphenyl (surr)	81		%	1	05/08/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.66	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	330	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	92		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	340	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	64		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	18		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	71		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

9:55
10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94959

Project ID: BRAINARD AIRPORT
Client ID: B-23 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	73		%		05/01/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	68	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	63		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	69		%	1	05/06/23	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

12:00
10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94960

Project ID: BRAINARD AIRPORT
Client ID: B-25 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		05/01/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/08/23	B/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	67		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/05/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Anthracene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Chrysene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Fluorene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
Pyrene	ND	260	ug/Kg	1	05/08/23	HM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	05/08/23	HM	30 - 130 %
% Nitrobenzene-d5	75		%	1	05/08/23	HM	30 - 130 %
% Terphenyl-d14	68		%	1	05/08/23	HM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

14:00
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94961

Project ID: BRAINARD AIRPORT
 Client ID: B-26 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	8.20	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	89		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	88		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	84		%	1	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.49	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	24	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	240	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	2.9	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	9.8	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	4.9	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	260	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	61		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	80		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

13:45
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94962

Project ID: BRAINARD AIRPORT
 Client ID: B-27 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2.87	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	78		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	66		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	280	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	92		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	290	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	64		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

13:20
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94963

Project ID: BRAINARD AIRPORT
 Client ID: B-28 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	69		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	72	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	79		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	81		%	1	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	0.66	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	330	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	91		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

11:40
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94964

Project ID: BRAINARD AIRPORT
 Client ID: B-29 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	66		%		05/01/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA PAH	Completed				05/05/23	MO/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	74	mg/Kg	1	05/06/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	60		%	1	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	62		%	1	05/06/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	84		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	88		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	78		%	1	05/06/23	KCA	30 - 130 %

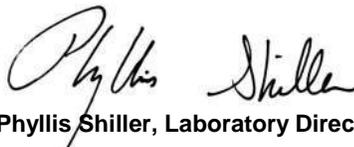
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

12:45
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94965

Project ID: BRAINARD AIRPORT
 Client ID: B-43 (6-8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	0.55	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	270	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	05/03/23	HM	SW8260C

QA/QC Surrogates

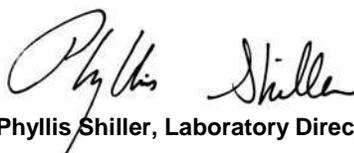
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	93		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: 5 Day
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

12:46
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94966

Project ID: BRAINARD AIRPORT
 Client ID: B-43 (13-15)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Arsenic	3.53	0.79	mg/Kg	1	05/05/23	IE	SW6010D
Barium	53.5	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Beryllium	< 0.32	0.32	mg/Kg	1	05/05/23	IE	SW6010D
Cadmium	0.43	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Chromium	32.1	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Copper	23.9	0.8	mg/kg	1	05/05/23	IE	SW6010D
Mercury	0.57	0.03	mg/Kg	2	05/02/23	AL1	SW7471B
Nickel	12.0	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Lead	47.0	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	05/05/23	IE	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/05/23	IE	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Mercury	< 0.0005	0.0005	mg/L	1	06/21/23	AL1	SW7470A
SPLP Lead	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	05/05/23	IE	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Vanadium	15.4	0.40	mg/Kg	1	05/05/23	IE	SW6010D
Zinc	35.9	0.8	mg/Kg	1	05/05/23	IE	SW6010D
Percent Solid	85		%		05/01/23	CV	SW846-%Solid
Mercury Digestion	Completed				05/02/23	D/D	SW7471B
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for PCB	Completed				05/04/23	MO/R/Y	SW3546
Soil Extraction for SVOA	Completed				05/05/23	MO/R/P	SW3546
SPLP Digestion Mercury	Completed				06/21/23	ZT/W/ZT	SW1312/SW7470A
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/02/23	L/AG	SW3050B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	05/05/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/05/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	110		%	5	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	84		%	5	05/05/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/05/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	49		%	10	05/05/23	SC	30 - 150 %
% DCBP (Confirmation)	41		%	10	05/05/23	SC	30 - 150 %
% TCMX	53		%	10	05/05/23	SC	30 - 150 %
% TCMX (Confirmation)	49		%	10	05/05/23	SC	30 - 150 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dinitrophenol	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Methylnaphthalene	340	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
2-Nitroaniline	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
3-Nitroaniline	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	05/06/23	KCA	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	450	270	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	1100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Acetophenone	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Aniline	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	1800	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	3000	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	2100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	2700	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	970	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	1100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Benzoic acid	ND	780	ug/Kg	1	05/06/23	KCA	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Carbazole	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	3000	270	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	340	270	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Di-n-butylphthalate	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	6500	270	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	1900	270	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Isophorone	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	670	270	ug/Kg	1	05/06/23	KCA	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Pentachloronitrobenzene	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	1100	270	ug/Kg	1	05/06/23	KCA	SW8270D
Phenol	ND	270	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	6600	270	ug/Kg	1	05/06/23	KCA	SW8270D
Pyridine	ND	390	ug/Kg	1	05/06/23	KCA	SW8270D

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol	94		%	1	05/06/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	73		%	1	05/06/23	KCA	30 - 130 %
% 2-Fluorophenol	70		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/06/23	KCA	30 - 130 %
% Phenol-d5	78		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	82		%	1	05/06/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

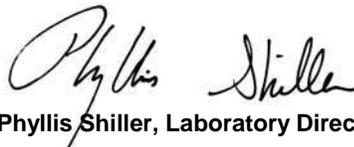
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

11:25
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94967

Project ID: BRAINARD AIRPORT
 Client ID: B-91 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	5100	650	mg/Kg	10	05/06/23	JRB	CTETPH
Identification	**		mg/Kg	10	05/06/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	Diluted Out		%	10	05/06/23	JRB	50 - 150 %
% Terphenyl (surr)	Diluted Out		%	10	05/06/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	150	ug/Kg	50	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	1300	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	150	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	73	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
2-Hexanone	ND	3600	ug/Kg	50	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
4-Chlorotoluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	3600	ug/Kg	50	05/03/23	HM	SW8260C
Acetone	ND	36000	ug/Kg	50	05/03/23	HM	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/03/23	HM	SW8260C
Benzene	230	200	ug/Kg	50	05/03/23	HM	SW8260C
Bromobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Bromochloromethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/03/23	HM	SW8260C
Bromoform	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Bromomethane	ND	700	ug/Kg	50	05/03/23	HM	SW8260C
Carbon Disulfide	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Chlorobenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Chloroethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Chloroform	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Chloromethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Dibromochloromethane	ND	150	ug/Kg	50	05/03/23	HM	SW8260C
Dibromomethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Ethylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Isopropylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
m&p-Xylene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	4400	ug/Kg	50	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1500	ug/Kg	50	05/03/23	HM	SW8260C
Methylene chloride	ND	1000	ug/Kg	50	05/03/23	HM	SW8260C
Naphthalene	77000	15000	ug/Kg	1000	05/03/23	HM	SW8260C
n-Butylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
n-Propylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
o-Xylene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Styrene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Tetrachloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	800	ug/Kg	50	05/03/23	HM	SW8260C
Toluene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Total Xylenes	ND	730	ug/Kg	50	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	1500	ug/Kg	50	05/03/23	HM	SW8260C
Trichloroethene	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	730	ug/Kg	50	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1500	ug/Kg	50	05/03/23	HM	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/03/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	05/03/23	HM	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	05/03/23	HM	70 - 130 %
% Dibromofluoromethane (50x)	87		%	50	05/03/23	HM	70 - 130 %
% Toluene-d8 (50x)	97		%	50	05/03/23	HM	70 - 130 %
% 1,2-dichlorobenzene-d4 (1000x)	100		%	1000	05/03/23	HM	70 - 130 %
% Bromofluorobenzene (1000x)	98		%	1000	05/03/23	HM	70 - 130 %
% Dibromofluoromethane (1000x)	88		%	1000	05/03/23	HM	70 - 130 %
% Toluene-d8 (1000x)	98		%	1000	05/03/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

11:10
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94968

Project ID: BRAINARD AIRPORT
 Client ID: B-105 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA	Completed				05/05/23	MO/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	110	53	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	117		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	80		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.47	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
2-Chlorotoluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
2-Hexanone	ND	23	ug/Kg	1	05/03/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
4-Chlorotoluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/03/23	JLI	SW8260C
Acetone	ND	230	ug/Kg	1	05/03/23	JLI	SW8260C
Acrylonitrile	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Benzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromochloromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromodichloromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromoform	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Bromomethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon Disulfide	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon tetrachloride	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Chlorobenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroform	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Chloromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromomethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Ethylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Isopropylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
m&p-Xylene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Methylene chloride	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Naphthalene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
n-Butylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
n-Propylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
o-Xylene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
sec-Butylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Styrene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
tert-Butylbenzene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrachloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Toluene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Trichloroethene	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.4	ug/Kg	1	05/03/23	JLI	SW8260C
Vinyl chloride	ND	4.7	ug/Kg	1	05/03/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/03/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/03/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/03/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	70	ug/kg	1	05/03/23	JLI	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
2-Nitroaniline	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	05/06/23	KCA	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Acenaphthylene	360	250	ug/Kg	1	05/06/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Aniline	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Anthracene	250	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benz(a)anthracene	1100	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(a)pyrene	1300	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(b)fluoranthene	1700	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(ghi)perylene	610	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzo(k)fluoranthene	610	250	ug/Kg	1	05/06/23	KCA	SW8270D
Benzoic acid	ND	700	ug/Kg	1	05/06/23	KCA	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Carbazole	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Chrysene	1200	250	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Di-n-butylphthalate	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Fluoranthene	1900	250	ug/Kg	1	05/06/23	KCA	SW8270D
Fluorene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	700	250	ug/Kg	1	05/06/23	KCA	SW8270D
Isophorone	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/06/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
Phenanthrene	920	250	ug/Kg	1	05/06/23	KCA	SW8270D
Phenol	ND	250	ug/Kg	1	05/06/23	KCA	SW8270D
Pyrene	1800	250	ug/Kg	1	05/06/23	KCA	SW8270D
Pyridine	ND	350	ug/Kg	1	05/06/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	94		%	1	05/06/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	83		%	1	05/06/23	KCA	30 - 130 %
% 2-Fluorophenol	76		%	1	05/06/23	KCA	30 - 130 %
% Nitrobenzene-d5	83		%	1	05/06/23	KCA	30 - 130 %
% Phenol-d5	83		%	1	05/06/23	KCA	30 - 130 %
% Terphenyl-d14	80		%	1	05/06/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

05/01/23
 05/01/23

Time

11:11
 10:38

Laboratory Data

SDG ID: GCN94953
 Phoenix ID: CN94969

Project ID: BRAINARD AIRPORT
 Client ID: DUP-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		05/01/23	CV	SW846-%Solid
Field Extraction	Completed				05/01/23		SW5035A
Extraction of ETPH	Completed				05/04/23	MO/P	SW3546
Soil Extraction for SVOA	Completed				05/05/23	MO/R/P	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	110	51	mg/Kg	1	05/05/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	120		%	1	05/05/23	JRB	50 - 150 %
% Terphenyl (surr)	78		%	1	05/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	05/03/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.44	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
2-Chlorotoluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
2-Hexanone	ND	22	ug/Kg	1	05/03/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
4-Chlorotoluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	ug/Kg	1	05/03/23	JLI	SW8260C
Acetone	ND	220	ug/Kg	1	05/03/23	JLI	SW8260C
Acrylonitrile	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Benzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromochloromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromodichloromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromoform	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Bromomethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon Disulfide	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Carbon tetrachloride	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Chlorobenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Chloroform	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Chloromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromochloromethane	ND	2.6	ug/Kg	1	05/03/23	JLI	SW8260C
Dibromomethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Ethylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Isopropylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
m&p-Xylene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	26	ug/Kg	1	05/03/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Methylene chloride	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Naphthalene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
n-Butylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
n-Propylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
o-Xylene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
sec-Butylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Styrene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
tert-Butylbenzene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrachloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Toluene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Trichloroethene	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	8.8	ug/Kg	1	05/03/23	JLI	SW8260C
Vinyl chloride	ND	4.4	ug/Kg	1	05/03/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/03/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/03/23	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	05/03/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	66	ug/kg	1	05/03/23	JLI	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
2-Nitroaniline	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	05/05/23	KCA	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Acenaphthylene	550	250	ug/Kg	1	05/05/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Aniline	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Anthracene	400	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benz(a)anthracene	2000	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(a)pyrene	2100	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(b)fluoranthene	2700	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(ghi)perylene	1100	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzo(k)fluoranthene	1000	250	ug/Kg	1	05/05/23	KCA	SW8270D
Benzoic acid	ND	700	ug/Kg	1	05/05/23	KCA	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Carbazole	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Chrysene	2200	250	ug/Kg	1	05/05/23	KCA	SW8270D
Dibenz(a,h)anthracene	300	250	ug/Kg	1	05/05/23	KCA	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Di-n-butylphthalate	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Fluoranthene	3700	250	ug/Kg	1	05/05/23	KCA	SW8270D
Fluorene	260	250	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1200	250	ug/Kg	1	05/05/23	KCA	SW8270D
Isophorone	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/05/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
Phenanthrene	1400	250	ug/Kg	1	05/05/23	KCA	SW8270D
Phenol	ND	250	ug/Kg	1	05/05/23	KCA	SW8270D
Pyrene	3400	250	ug/Kg	1	05/05/23	KCA	SW8270D
Pyridine	ND	350	ug/Kg	1	05/05/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	85		%	1	05/05/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	74		%	1	05/05/23	KCA	30 - 130 %
% 2-Fluorophenol	68		%	1	05/05/23	KCA	30 - 130 %
% Nitrobenzene-d5	72		%	1	05/05/23	KCA	30 - 130 %
% Phenol-d5	75		%	1	05/05/23	KCA	30 - 130 %
% Terphenyl-d14	74		%	1	05/05/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date: 05/01/23
Time: 10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94970

Project ID: BRAINARD AIRPORT
Client ID: TB050123L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/01/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/03/23	HM	SW8260C
Acetone	ND	250	ug/Kg	1	05/03/23	HM	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/03/23	HM	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/03/23	HM	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/03/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	05/03/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97		%	1	05/03/23	HM	70 - 130 %
% Dibromofluoromethane	90		%	1	05/03/23	HM	70 - 130 %
% Toluene-d8	98		%	1	05/03/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

05/01/23
05/01/23

Time

10:38

Laboratory Data

SDG ID: GCN94953
Phoenix ID: CN94971

Project ID: BRAINARD AIRPORT
Client ID: TB050123H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction	Completed				05/01/23		SW5035A
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Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/03/23	HM	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/03/23	HM	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/03/23	HM	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/03/23	HM	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/03/23	HM	SW8260C
Acetone	ND	5000	ug/Kg	50	05/03/23	HM	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/03/23	HM	SW8260C
Benzene	ND	200	ug/Kg	50	05/03/23	HM	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/03/23	HM	SW8260C
Bromoform	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Chloroform	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/03/23	HM	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/03/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/03/23	HM	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Styrene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/03/23	HM	SW8260C
Toluene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/03/23	HM	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/03/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	05/03/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	96		%	50	05/03/23	HM	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	05/03/23	HM	70 - 130 %
% Toluene-d8 (50x)	96		%	50	05/03/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

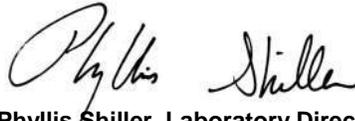
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 27, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 27, 2023

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 675587 (mg/kg), QC Sample No: CN94641 2X (CN94953, CN94966)													
Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	102	106	3.8	102	103	1.0	70 - 130	30
Comment:													

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 683376 (mg/L), QC Sample No: CO11308 (CN94966)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	101			92.2			80 - 120	20
Comment:													

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 675748 (mg/kg), QC Sample No: CN94956 (CN94956, CN94957, CN94958, CN94961, CN94962, CN94966)

ICP Metals - Soil

Antimony	BRL	3.3	<3.1	<3.2	NC	108	118	8.8	88.7			75 - 125	35
Arsenic	BRL	0.67	1.42	1.34	NC	98.6	108	9.1	95.1			75 - 125	35
Barium	BRL	0.33	62.0	73.2	16.6	102	112	9.3	114			75 - 125	35
Beryllium	BRL	0.27	<0.25	0.30	NC	99.4	109	9.2	89.5			75 - 125	35
Cadmium	BRL	0.33	0.67	0.79	NC	96.0	107	10.8	95.9			75 - 125	35
Chromium	BRL	0.33	21.8	21.5	1.40	101	112	10.3	95.4			75 - 125	35
Copper	BRL	0.67	31.1	36.8	16.8	101	111	9.4	92.8			75 - 125	35
Lead	BRL	0.33	12.7	9.04	33.7	93.4	102	8.8	97.9			75 - 125	35
Nickel	BRL	0.33	13.5	16.0	16.9	98.7	109	9.9	97.0			75 - 125	35
Selenium	BRL	1.3	<1.3	<1.3	NC	105	114	8.2	90.7			75 - 125	35
Silver	BRL	0.33	<0.31	<0.32	NC	101	109	7.6	95.1			75 - 125	35
Thallium	BRL	3.0	<2.8	<2.9	NC	98.5	107	8.3	93.4			75 - 125	35
Vanadium	BRL	0.33	48.1	51.2	6.20	102	112	9.3	100			75 - 125	35
Zinc	BRL	0.67	41.6	49.0	16.3	103	111	7.5	97.9			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 675747 (mg/kg), QC Sample No: CN95974 (CN94953, CN94955)

ICP Metals - Soil

Antimony	BRL	3.3	<3.7	<3.9	NC	107	102	4.8	98.4			75 - 125	35
Arsenic	BRL	0.67	1.17	0.94	NC	103	97.7	5.3	95.4			75 - 125	35
Barium	BRL	0.33	9.5	8.27	13.8	106	100	5.8	101			75 - 125	35
Beryllium	BRL	0.27	<0.30	<0.31	NC	104	98.1	5.8	94.0			75 - 125	35
Cadmium	BRL	0.33	<0.37	<0.39	NC	103	96.2	6.8	93.0			75 - 125	35
Chromium	BRL	0.33	4.54	4.31	5.20	104	99.3	4.6	97.8			75 - 125	35
Copper	BRL	0.67	4.4	6.28	35.2	107	100	6.8	101			75 - 125	35
Lead	BRL	0.33	2.9	3.02	NC	99.1	92.4	7.0	98.6			75 - 125	35
Nickel	BRL	0.33	3.23	3.58	10.3	104	97.9	6.0	96.6			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.6	NC	106	102	3.8	98.4			75 - 125	35
Silver	BRL	0.33	<0.37	<0.39	NC	105	97.9	7.0	98.2			75 - 125	35
Thallium	BRL	3.0	<1.5	<3.5	NC	104	97.7	6.2	92.6			75 - 125	35
Vanadium	BRL	0.33	5.35	4.56	15.9	105	100	4.9	98.2			75 - 125	35
Zinc	BRL	0.67	27.0	27.5	1.80	109	101	7.6	97.2			75 - 125	35

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 683383 (mg/L), QC Sample No: CO00632 (CN94966)

ICP Metals - SPLP Extraction

Chromium	BRL	0.010	<0.010	<0.010	NC	101	102	1.0	101			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	101	100	1.0	99.8			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.
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QA/QC Report

June 27, 2023

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 675993 (mg/Kg), QC Sample No: CN94680 (CN94953, CN94954, CN94955)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	89	72	21.1	73	87	17.5	60 - 120	30
% COD (surr)	82	%	124	107	14.7	106	124	15.7	50 - 150	30
% Terphenyl (surr)	86	%	117	95	20.8	95	115	19.0	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 676002 (mg/Kg), QC Sample No: CN94960 (CN94956, CN94957, CN94958, CN94959, CN94960, CN94961, CN94962, CN94963, CN94964, CN94966, CN94967, CN94968, CN94969)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	85	95	11.1	67	104	43.3	60 - 120	30	r
% COD (surr)	77	%	90	105	15.4	75	111	38.7	50 - 150	30	r
% Terphenyl (surr)	76	%	85	90	5.7	65	97	39.5	50 - 150	30	r

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 676172 (ug/Kg), QC Sample No: CN95280 2X (CN94966)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	93	94	1.1	87	103	16.8	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	97	109	11.7	90	105	15.4	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	80	%	101	110	8.5	85	110	25.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	89	%	106	109	2.8	90	104	14.4	30 - 150	30
% TCMX (Surrogate Rec)	43	%	71	70	1.4	68	73	7.1	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	66	%	87	84	3.5	83	85	2.4	30 - 150	30

QA/QC Batch 676178 (ug/kg), QC Sample No: CN94953 (CN94953)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	64	55	15.1	61	56	8.5	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	65	56	14.9	56	58	3.5	40 - 140	30
1,2-Dichlorobenzene	ND	180	64	56	13.3	50	58	14.8	40 - 140	30
1,2-Diphenylhydrazine	ND	230	68	57	17.6	71	59	18.5	40 - 140	30
1,3-Dichlorobenzene	ND	230	62	55	12.0	49	57	15.1	40 - 140	30
1,4-Dichlorobenzene	ND	230	62	54	13.8	49	56	13.3	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	69	59	15.6	57	61	6.8	40 - 140	30
2,4,5-Trichlorophenol	ND	230	78	66	16.7	85	67	23.7	40 - 140	30

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
2,4,6-Trichlorophenol	ND	130	81	67	18.9	83	69	18.4	30 - 130	30	
2,4-Dichlorophenol	ND	130	76	63	18.7	73	65	11.6	30 - 130	30	
2,4-Dimethylphenol	ND	230	78	65	18.2	67	63	6.2	30 - 130	30	
2,4-Dinitrophenol	ND	230	113	101	11.2	119	98	19.4	30 - 130	30	
2,4-Dinitrotoluene	ND	130	85	74	13.8	93	74	22.8	30 - 130	30	
2,6-Dinitrotoluene	ND	130	79	67	16.4	86	69	21.9	40 - 140	30	
2-Chloronaphthalene	ND	230	69	57	19.0	69	60	14.0	40 - 140	30	
2-Chlorophenol	ND	230	73	60	19.5	64	62	3.2	30 - 130	30	
2-Methylnaphthalene	ND	230	70	59	17.1	67	60	11.0	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	71	59	18.5	64	60	6.5	40 - 140	30	
2-Nitroaniline	ND	330	95	79	18.4	110	82	29.2	40 - 140	30	
2-Nitrophenol	ND	230	98	82	17.8	83	83	0.0	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	76	63	18.7	72	65	10.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	52	38	31.1	70	59	17.1	40 - 140	30	l,r
3-Nitroaniline	ND	330	71	60	16.8	90	68	27.8	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	104	91	13.3	113	90	22.7	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	73	61	17.9	76	62	20.3	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	81	69	16.0	83	69	18.4	30 - 130	30	
4-Chloroaniline	ND	230	65	55	16.7	64	54	16.9	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	70	59	17.1	74	60	20.9	40 - 140	30	
4-Nitroaniline	ND	230	81	71	13.2	88	71	21.4	40 - 140	30	
4-Nitrophenol	ND	230	105	90	15.4	112	91	20.7	30 - 130	30	
Acenaphthene	ND	230	72	61	16.5	75	62	19.0	30 - 130	30	
Acenaphthylene	ND	130	66	55	18.2	69	57	19.0	40 - 140	30	
Acetophenone	ND	230	68	56	19.4	58	58	0.0	40 - 140	30	
Aniline	ND	330	98	88	10.8	47	84	56.5	40 - 140	30	r
Anthracene	ND	230	74	63	16.1	75	61	20.6	40 - 140	30	
Benz(a)anthracene	ND	230	69	58	17.3	65	55	16.7	40 - 140	30	
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	83	71	15.6	80	66	19.2	40 - 140	30	
Benzo(b)fluoranthene	ND	160	75	65	14.3	70	58	18.8	40 - 140	30	
Benzo(ghi)perylene	ND	230	78	67	15.2	75	62	19.0	40 - 140	30	
Benzo(k)fluoranthene	ND	230	72	62	14.9	71	57	21.9	40 - 140	30	
Benzoic Acid	ND	670	110	93	16.7	101	90	11.5	30 - 130	30	
Benzyl butyl phthalate	ND	230	77	65	16.9	81	66	20.4	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	68	57	17.6	63	60	4.9	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	72	61	16.5	55	63	13.6	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	77	64	18.4	82	64	24.7	40 - 140	30	
Carbazole	ND	230	73	63	14.7	78	63	21.3	40 - 140	30	
Chrysene	ND	230	73	61	17.9	70	57	20.5	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	77	66	15.4	82	64	24.7	40 - 140	30	
Dibenzofuran	ND	230	71	60	16.8	75	62	19.0	40 - 140	30	
Diethyl phthalate	ND	230	74	62	17.6	78	63	21.3	40 - 140	30	
Dimethylphthalate	ND	230	72	62	14.9	76	62	20.3	40 - 140	30	
Di-n-butylphthalate	ND	670	77	66	15.4	80	65	20.7	40 - 140	30	
Di-n-octylphthalate	ND	230	85	72	16.6	92	73	23.0	40 - 140	30	
Fluoranthene	ND	230	75	64	15.8	64	55	15.1	40 - 140	30	
Fluorene	ND	230	73	61	17.9	77	64	18.4	40 - 140	30	
Hexachlorobenzene	ND	130	73	61	17.9	75	61	20.6	40 - 140	30	
Hexachlorobutadiene	ND	230	66	57	14.6	54	59	8.8	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	65	55	16.7	54	54	0.0	40 - 140	30	
Hexachloroethane	ND	130	63	55	13.6	49	58	16.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	76	66	14.1	76	61	21.9	40 - 140	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Isophorone	ND	130	63	53	17.2	59	55	7.0	40 - 140	30
Naphthalene	ND	230	67	59	12.7	63	60	4.9	40 - 140	30
Nitrobenzene	ND	130	75	63	17.4	63	64	1.6	40 - 140	30
N-Nitrosodimethylamine	ND	230	65	55	16.7	54	57	5.4	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	69	57	19.0	62	60	3.3	40 - 140	30
N-Nitrosodiphenylamine	ND	130	69	59	15.6	76	61	21.9	40 - 140	30
Pentachloronitrobenzene	ND	230	82	72	13.0	87	71	20.3	40 - 140	30
Pentachlorophenol	ND	230	91	78	15.4	91	76	18.0	30 - 130	30
Phenanthrene	ND	130	72	62	14.9	64	51	22.6	40 - 140	30
Phenol	ND	230	77	63	20.0	70	63	10.5	30 - 130	30
Pyrene	ND	230	75	64	15.8	66	58	12.9	30 - 130	30
Pyridine	ND	230	26	26	0.0	16	28	54.5	40 - 140	30
% 2,4,6-Tribromophenol	74	%	85	72	16.6	85	73	15.2	30 - 130	30
% 2-Fluorobiphenyl	57	%	67	56	17.9	66	58	12.9	30 - 130	30
% 2-Fluorophenol	54	%	71	57	21.9	60	60	0.0	30 - 130	30
% Nitrobenzene-d5	55	%	75	60	22.2	61	63	3.2	30 - 130	30
% Phenol-d5	58	%	72	60	18.2	66	61	7.9	30 - 130	30
% Terphenyl-d14	62	%	69	59	15.6	72	58	21.5	30 - 130	30

l,m,r

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676227 (ug/kg), QC Sample No: CN94960 (CN94954, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94964)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	64	59	8.1	65	50	26.1	40 - 140	30
Acenaphthene	ND	230	59	57	3.4	62	48	25.5	30 - 130	30
Acenaphthylene	ND	230	55	53	3.7	58	45	25.2	40 - 140	30
Anthracene	ND	230	63	60	4.9	64	53	18.8	40 - 140	30
Benz(a)anthracene	ND	230	59	56	5.2	59	51	14.5	40 - 140	30
Benzo(a)pyrene	ND	230	70	66	5.9	71	60	16.8	40 - 140	30
Benzo(b)fluoranthene	ND	230	67	60	11.0	63	55	13.6	40 - 140	30
Benzo(ghi)perylene	ND	230	77	71	8.1	76	64	17.1	40 - 140	30
Benzo(k)fluoranthene	ND	230	59	54	8.8	58	48	18.9	40 - 140	30
Chrysene	ND	230	62	59	5.0	62	53	15.7	40 - 140	30
Dibenz(a,h)anthracene	ND	230	76	69	9.7	73	62	16.3	40 - 140	30
Fluoranthene	ND	230	63	58	8.3	64	54	16.9	40 - 140	30
Fluorene	ND	230	67	64	4.6	70	55	24.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	78	72	8.0	75	64	15.8	40 - 140	30
Naphthalene	ND	230	70	64	9.0	68	46	38.6	40 - 140	30
Phenanthrene	ND	230	63	59	6.6	65	52	22.2	40 - 140	30
Pyrene	ND	230	62	58	6.7	63	53	17.2	30 - 130	30
% 2-Fluorobiphenyl	63	%	58	54	7.1	60	46	26.4	30 - 130	30
% Nitrobenzene-d5	65	%	63	59	6.6	61	43	34.6	30 - 130	30
% Terphenyl-d14	64	%	61	55	10.3	61	49	21.8	30 - 130	30

r

r

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676228 (ug/kg), QC Sample No: CN94969 (CN94966, CN94968, CN94969)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	74	71	4.1	63	67	6.2	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	73	64	13.1	62	65	4.7	40 - 140	30
1,2-Dichlorobenzene	ND	180	70	57	20.5	58	63	8.3	40 - 140	30

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Diphenylhydrazine	ND	230	78	77	1.3	62	62	0.0	40 - 140	30	
1,3-Dichlorobenzene	ND	230	69	55	22.6	57	61	6.8	40 - 140	30	
1,4-Dichlorobenzene	ND	230	68	55	21.1	57	61	6.8	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	78	67	15.2	66	71	7.3	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	92	93	1.1	78	83	6.2	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	94	94	0.0	79	82	3.7	30 - 130	30	
2,4-Dichlorophenol	ND	130	85	83	2.4	73	77	5.3	30 - 130	30	
2,4-Dimethylphenol	ND	230	82	79	3.7	73	76	4.0	30 - 130	30	
2,4-Dinitrophenol	ND	230	135	149	9.9	87	85	2.3	30 - 130	30	l
2,4-Dinitrotoluene	ND	130	85	92	7.9	77	79	2.6	30 - 130	30	
2,6-Dinitrotoluene	ND	130	80	86	7.2	72	78	8.0	40 - 140	30	
2-Chloronaphthalene	ND	230	79	77	2.6	66	69	4.4	40 - 140	30	
2-Chlorophenol	ND	230	79	72	9.3	66	71	7.3	30 - 130	30	
2-Methylnaphthalene	ND	230	77	74	4.0	63	68	7.6	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	76	74	2.7	64	68	6.1	40 - 140	30	
2-Nitroaniline	ND	330	100	119	17.4	80	80	0.0	40 - 140	30	
2-Nitrophenol	ND	230	92	92	0.0	90	99	9.5	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	83	81	2.4	69	74	7.0	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	58	84	36.6	40	25	46.2	40 - 140	30	m,r
3-Nitroaniline	ND	330	60	94	44.2	58	55	5.3	40 - 140	30	r
4,6-Dinitro-2-methylphenol	ND	230	112	126	11.8	83	87	4.7	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	86	84	2.4	71	74	4.1	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	91	90	1.1	76	80	5.1	30 - 130	30	
4-Chloroaniline	ND	230	64	53	18.8	44	32	31.6	40 - 140	30	m,r
4-Chlorophenyl phenyl ether	ND	230	83	82	1.2	69	72	4.3	40 - 140	30	
4-Nitroaniline	ND	230	85	91	6.8	76	82	7.6	40 - 140	30	
4-Nitrophenol	ND	230	125	132	5.4	117	115	1.7	30 - 130	30	l
Acenaphthene	ND	230	83	82	1.2	70	74	5.6	30 - 130	30	
Acenaphthylene	ND	130	76	74	2.7	57	66	14.6	40 - 140	30	
Acetophenone	ND	230	73	67	8.6	60	65	8.0	40 - 140	30	
Aniline	ND	330	116	<10	NC	79	73	7.9	40 - 140	30	l
Anthracene	ND	230	84	83	1.2	67	72	7.2	40 - 140	30	
Benz(a)anthracene	ND	230	80	79	1.3	44	64	37.0	40 - 140	30	r
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	97	94	3.1	52	73	33.6	40 - 140	30	r
Benzo(b)fluoranthene	ND	160	87	84	3.5	36	67	60.2	40 - 140	30	m,r
Benzo(ghi)perylene	ND	230	91	88	3.4	48	59	20.6	40 - 140	30	
Benzo(k)fluoranthene	ND	230	82	80	2.5	51	66	25.6	40 - 140	30	
Benzoic Acid	ND	670	109	120	9.6	100	112	11.3	30 - 130	30	
Benzyl butyl phthalate	ND	230	88	87	1.1	71	74	4.1	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	75	72	4.1	63	67	6.2	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	78	63	21.3	63	68	7.6	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	87	86	1.2	71	74	4.1	40 - 140	30	
Carbazole	ND	230	83	84	1.2	71	75	5.5	40 - 140	30	
Chrysene	ND	230	84	83	1.2	42	66	44.4	40 - 140	30	r
Dibenz(a,h)anthracene	ND	130	90	88	2.2	61	65	6.3	40 - 140	30	
Dibenzofuran	ND	230	81	80	1.2	67	71	5.8	40 - 140	30	
Diethyl phthalate	ND	230	84	84	0.0	69	72	4.3	40 - 140	30	
Dimethylphthalate	ND	230	86	86	0.0	69	72	4.3	40 - 140	30	
Di-n-butylphthalate	ND	670	88	86	2.3	70	74	5.6	40 - 140	30	
Di-n-octylphthalate	ND	230	99	98	1.0	81	85	4.8	40 - 140	30	
Fluoranthene	ND	230	86	85	1.2	32	68	72.0	40 - 140	30	m,r
Fluorene	ND	230	85	84	1.2	69	74	7.0	40 - 140	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Hexachlorobenzene	ND	130	82	80	2.5	66	70	5.9	40 - 140	30	
Hexachlorobutadiene	ND	230	74	63	16.1	64	68	6.1	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	73	69	5.6	<10	<10	NC	40 - 140	30	m
Hexachloroethane	ND	130	69	56	20.8	55	54	1.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	93	92	1.1	49	62	23.4	40 - 140	30	
Isophorone	ND	130	70	68	2.9	59	62	5.0	40 - 140	30	
Naphthalene	ND	230	72	65	10.2	58	63	8.3	40 - 140	30	
Nitrobenzene	ND	130	76	70	8.2	65	71	8.8	40 - 140	30	
N-Nitrosodimethylamine	ND	230	65	58	11.4	55	57	3.6	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	74	70	5.6	62	65	4.7	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	82	84	2.4	70	72	2.8	40 - 140	30	
Pentachloronitrobenzene	ND	230	88	89	1.1	74	61	19.3	40 - 140	30	
Pentachlorophenol	ND	230	99	97	2.0	85	91	6.8	30 - 130	30	
Phenanthrene	ND	130	83	82	1.2	66	79	17.9	40 - 140	30	
Phenol	ND	230	80	79	1.3	68	72	5.7	30 - 130	30	
Pyrene	ND	230	86	85	1.2	33	66	66.7	30 - 130	30	r
Pyridine	ND	230	62	<10	NC	43	<10	NC	40 - 140	30	l,m
% 2,4,6-Tribromophenol	87	%	94	92	2.2	79	79	0.0	30 - 130	30	
% 2-Fluorobiphenyl	72	%	78	75	3.9	65	68	4.5	30 - 130	30	
% 2-Fluorophenol	67	%	74	67	9.9	61	65	6.3	30 - 130	30	
% Nitrobenzene-d5	61	%	71	66	7.3	64	69	7.5	30 - 130	30	
% Phenol-d5	72	%	80	77	3.8	67	70	4.4	30 - 130	30	
% Terphenyl-d14	78	%	81	80	1.2	67	69	2.9	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676636 (ug/kg), QC Sample No: CN96298 (CN94960)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	67	71	5.8	57	44	25.7	40 - 140	30	
Acenaphthene	ND	230	64	73	13.1	54	57	5.4	30 - 130	30	
Acenaphthylene	ND	230	60	67	11.0	52	53	1.9	40 - 140	30	
Anthracene	ND	230	68	76	11.1	59	72	19.8	40 - 140	30	
Benz(a)anthracene	ND	230	63	72	13.3	56	68	19.4	40 - 140	30	
Benzo(a)pyrene	ND	230	73	86	16.4	64	78	19.7	40 - 140	30	
Benzo(b)fluoranthene	ND	230	66	75	12.8	58	71	20.2	40 - 140	30	
Benzo(ghi)perylene	ND	230	79	92	15.2	71	87	20.3	40 - 140	30	
Benzo(k)fluoranthene	ND	230	60	68	12.5	51	63	21.1	40 - 140	30	
Chrysene	ND	230	67	77	13.9	59	72	19.8	40 - 140	30	
Dibenz(a,h)anthracene	ND	230	77	88	13.3	68	82	18.7	40 - 140	30	
Fluoranthene	ND	230	65	74	12.9	58	72	21.5	40 - 140	30	
Fluorene	ND	230	72	83	14.2	64	72	11.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	79	92	15.2	70	83	17.0	40 - 140	30	
Naphthalene	ND	230	71	72	1.4	56	37	40.9	40 - 140	30	m,r
Phenanthrene	ND	230	67	76	12.6	58	72	21.5	40 - 140	30	
Pyrene	ND	230	62	71	13.5	56	72	25.0	30 - 130	30	
% 2-Fluorobiphenyl	81	%	60	66	9.5	51	46	10.3	30 - 130	30	
% Nitrobenzene-d5	81	%	61	60	1.7	49	36	30.6	30 - 130	30	r
% Terphenyl-d14	76	%	59	68	14.2	53	65	20.3	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 676168 (ug/kg), QC Sample No: CN95831 (CN94968, CN94969)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	113	113	0.0	94	94	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	102	98	4.0	90	92	2.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	103	100	3.0	<10	<10	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	5.0	102	101	1.0	64	64	0.0	70 - 130	30	m
1,1-Dichloroethane	ND	5.0	91	91	0.0	86	84	2.4	70 - 130	30	
1,1-Dichloroethene	ND	5.0	97	92	5.3	112	110	1.8	70 - 130	30	
1,1-Dichloropropene	ND	5.0	105	102	2.9	95	91	4.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	101	103	2.0	59	50	16.5	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	104	102	1.9	90	90	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	97	101	4.0	59	50	16.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	104	103	1.0	83	74	11.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	114	112	1.8	62	63	1.6	70 - 130	30	m
1,2-Dibromoethane	ND	5.0	108	106	1.9	101	101	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	100	99	1.0	76	71	6.8	70 - 130	30	
1,2-Dichloroethane	ND	5.0	96	95	1.0	91	91	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	99	0.0	97	95	2.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	106	104	1.9	82	74	10.3	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	100	100	0.0	77	70	9.5	70 - 130	30	
1,3-Dichloropropane	ND	5.0	103	101	2.0	98	98	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	98	98	0.0	75	69	8.3	70 - 130	30	m
1,4-dioxane	ND	100	96	99	3.1	112	114	1.8	70 - 130	30	
2,2-Dichloropropane	ND	5.0	94	94	0.0	91	91	0.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	106	104	1.9	85	79	7.3	70 - 130	30	
2-Hexanone	ND	25	97	93	4.2	94	100	6.2	70 - 130	30	
2-Isopropyltoluene	ND	5.0	105	103	1.9	75	65	14.3	70 - 130	30	m
4-Chlorotoluene	ND	5.0	106	104	1.9	85	78	8.6	70 - 130	30	
4-Methyl-2-pentanone	ND	25	100	96	4.1	100	103	3.0	70 - 130	30	
Acetone	ND	10	70	71	1.4	115	125	8.3	70 - 130	30	
Acrylonitrile	ND	5.0	86	86	0.0	79	82	3.7	70 - 130	30	
Benzene	ND	1.0	105	103	1.9	99	97	2.0	70 - 130	30	
Bromobenzene	ND	5.0	104	103	1.0	89	86	3.4	70 - 130	30	
Bromochloromethane	ND	5.0	101	102	1.0	95	96	1.0	70 - 130	30	
Bromodichloromethane	ND	5.0	104	104	0.0	88	87	1.1	70 - 130	30	
Bromoform	ND	5.0	116	113	2.6	93	97	4.2	70 - 130	30	
Bromomethane	ND	5.0	85	81	4.8	71	70	1.4	70 - 130	30	
Carbon Disulfide	ND	5.0	87	86	1.2	68	66	3.0	70 - 130	30	m
Carbon tetrachloride	ND	5.0	102	103	1.0	86	85	1.2	70 - 130	30	
Chlorobenzene	ND	5.0	103	103	0.0	91	88	3.4	70 - 130	30	
Chloroethane	ND	5.0	86	87	1.2	81	81	0.0	70 - 130	30	
Chloroform	ND	5.0	98	97	1.0	89	92	3.3	70 - 130	30	
Chloromethane	ND	5.0	100	98	2.0	87	85	2.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	99	98	1.0	92	90	2.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	106	105	0.9	94	94	0.0	70 - 130	30	
Dibromochloromethane	ND	3.0	113	111	1.8	94	93	1.1	70 - 130	30	
Dibromomethane	ND	5.0	102	101	1.0	96	96	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	104	94	10.1	80	76	5.1	70 - 130	30	
Ethylbenzene	ND	1.0	107	106	0.9	93	88	5.5	70 - 130	30	
Hexachlorobutadiene	ND	5.0	103	100	3.0	42	30	33.3	70 - 130	30	m,r
Isopropylbenzene	ND	1.0	108	106	1.9	88	81	8.3	70 - 130	30	
m&p-Xylene	ND	2.0	105	104	1.0	90	86	4.5	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	BLK RL									
Methyl ethyl ketone	ND	5.0	80	80	0.0	83	90	8.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	89	88	1.1	90	91	1.1	70 - 130	30	
Methylene chloride	ND	5.0	86	84	2.4	84	84	0.0	70 - 130	30	
Naphthalene	ND	5.0	113	111	1.8	91	88	3.4	70 - 130	30	
n-Butylbenzene	ND	1.0	104	102	1.9	67	54	21.5	70 - 130	30	m
n-Propylbenzene	ND	1.0	105	104	1.0	83	74	11.5	70 - 130	30	
o-Xylene	ND	2.0	106	106	0.0	92	88	4.4	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	104	1.9	75	63	17.4	70 - 130	30	m
sec-Butylbenzene	ND	1.0	107	104	2.8	74	63	16.1	70 - 130	30	m
Styrene	ND	5.0	106	104	1.9	90	87	3.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	109	106	2.8	80	70	13.3	70 - 130	30	
Tetrachloroethene	ND	5.0	103	100	3.0	88	82	7.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	91	88	3.4	89	93	4.4	70 - 130	30	
Toluene	ND	1.0	106	104	1.9	97	94	3.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	93	91	2.2	81	81	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	111	111	0.0	89	91	2.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	89	87	2.3	74	76	2.7	70 - 130	30	
Trichloroethene	ND	5.0	104	101	2.9	171	166	3.0	70 - 130	30	m
Trichlorofluoromethane	ND	5.0	96	94	2.1	83	81	2.4	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	89	83	7.0	77	73	5.3	70 - 130	30	
Vinyl chloride	ND	5.0	95	93	2.1	83	82	1.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	101	99	2.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	99	%	101	100	1.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	93	%	95	96	1.0	69	69	0.0	70 - 130	30	m
% Toluene-d8	99	%	99	99	0.0	99	99	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 676168H (ug/kg), QC Sample No: CN95831 50X (CN94967 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	117	115	1.7	83	103	21.5	70 - 130	30	
1,1,1-Trichloroethane	ND	250	105	100	4.9	76	95	22.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	110	108	1.8	92	105	13.2	70 - 130	30	
1,1,2-Trichloroethane	ND	250	110	108	1.8	89	101	12.6	70 - 130	30	
1,1-Dichloroethane	ND	250	95	95	0.0	80	91	12.9	70 - 130	30	
1,1-Dichloroethene	ND	250	75	77	2.6	62	73	16.3	70 - 130	30	m
1,1-Dichloropropene	ND	250	113	113	0.0	96	107	10.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	129	128	0.8	106	125	16.5	70 - 130	30	
1,2,3-Trichloropropane	ND	250	111	104	6.5	94	102	8.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	132	130	1.5	107	126	16.3	70 - 130	30	l
1,2,4-Trimethylbenzene	ND	250	123	122	0.8	105	119	12.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	122	116	5.0	89	111	22.0	70 - 130	30	
1,2-Dibromoethane	ND	250	119	118	0.8	96	112	15.4	70 - 130	30	
1,2-Dichlorobenzene	ND	250	117	117	0.0	97	111	13.5	70 - 130	30	
1,2-Dichloroethane	ND	250	103	104	1.0	84	96	13.3	70 - 130	30	
1,2-Dichloropropane	ND	250	108	108	0.0	89	101	12.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	123	123	0.0	104	119	13.5	70 - 130	30	
1,3-Dichlorobenzene	ND	250	121	121	0.0	99	115	15.0	70 - 130	30	
1,3-Dichloropropane	ND	250	114	112	1.8	94	107	12.9	70 - 130	30	
1,4-Dichlorobenzene	ND	250	119	118	0.8	97	112	14.4	70 - 130	30	
2,2-Dichloropropane	ND	250	96	96	0.0	69	90	26.4	70 - 130	30	m
2-Chlorotoluene	ND	250	121	121	0.0	103	118	13.6	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Hexanone	ND	1300	96	94	2.1	86	98	13.0	70 - 130	30	
2-Isopropyltoluene	ND	250	120	121	0.8	103	117	12.7	70 - 130	30	
4-Chlorotoluene	ND	250	123	124	0.8	103	119	14.4	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	101	99	2.0	86	95	9.9	70 - 130	30	
Acetone	ND	500	59	59	0.0	55	59	7.0	70 - 130	30	l,m
Acrylonitrile	ND	250	90	86	4.5	76	87	13.5	70 - 130	30	
Benzene	ND	250	113	112	0.9	95	107	11.9	70 - 130	30	
Bromobenzene	ND	250	118	119	0.8	101	114	12.1	70 - 130	30	
Bromochloromethane	ND	250	111	109	1.8	87	102	15.9	70 - 130	30	
Bromodichloromethane	ND	250	108	104	3.8	77	92	17.8	70 - 130	30	
Bromoform	ND	250	111	103	7.5	73	90	20.9	70 - 130	30	
Bromomethane	ND	250	65	64	1.6	50	59	16.5	70 - 130	30	l,m
Carbon Disulfide	ND	250	68	69	1.5	54	65	18.5	70 - 130	30	l,m
Carbon tetrachloride	ND	250	94	91	3.2	61	77	23.2	70 - 130	30	m
Chlorobenzene	ND	250	118	118	0.0	98	112	13.3	70 - 130	30	
Chloroethane	ND	250	24	24	0.0	19	22	14.6	70 - 130	30	l,m
Chloroform	ND	250	106	101	4.8	86	97	12.0	70 - 130	30	
Chloromethane	ND	250	103	100	3.0	80	88	9.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	109	107	1.9	86	99	14.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	112	111	0.9	81	98	19.0	70 - 130	30	
Dibromochloromethane	ND	150	116	110	5.3	80	99	21.2	70 - 130	30	
Dibromomethane	ND	250	111	107	3.7	90	102	12.5	70 - 130	30	
Dichlorodifluoromethane	ND	250	97	95	2.1	69	80	14.8	70 - 130	30	m
Ethylbenzene	ND	250	121	122	0.8	103	118	13.6	70 - 130	30	
Hexachlorobutadiene	ND	250	124	126	1.6	106	124	15.7	70 - 130	30	
Isopropylbenzene	ND	250	122	123	0.8	105	120	13.3	70 - 130	30	
m&p-Xylene	ND	250	121	120	0.8	102	117	13.7	70 - 130	30	
Methyl ethyl ketone	ND	250	86	82	4.8	74	77	4.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	99	96	3.1	79	89	11.9	70 - 130	30	
Methylene chloride	ND	250	89	87	2.3	74	84	12.7	70 - 130	30	
n-Butylbenzene	ND	250	128	128	0.0	106	123	14.8	70 - 130	30	
n-Propylbenzene	ND	250	123	123	0.0	105	120	13.3	70 - 130	30	
o-Xylene	ND	250	122	121	0.8	102	116	12.8	70 - 130	30	
p-Isopropyltoluene	ND	250	126	126	0.0	106	121	13.2	70 - 130	30	
sec-Butylbenzene	ND	250	123	122	0.8	105	119	12.5	70 - 130	30	
Styrene	ND	250	122	120	1.7	100	115	14.0	70 - 130	30	
tert-Butylbenzene	ND	250	121	122	0.8	105	119	12.5	70 - 130	30	
Tetrachloroethene	ND	250	115	116	0.9	98	113	14.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	96	91	5.3	83	89	7.0	70 - 130	30	
Toluene	ND	250	116	116	0.0	98	111	12.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	97	97	0.0	80	91	12.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	118	114	3.4	80	100	22.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	92	91	1.1	62	82	27.8	70 - 130	30	m
Trichloroethene	ND	250	110	112	1.8	96	109	12.7	70 - 130	30	
Trichlorofluoromethane	ND	250	21	20	4.9	18	20	10.5	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	80	80	0.0	64	75	15.8	70 - 130	30	m
Vinyl chloride	ND	250	95	93	2.1	75	86	13.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	99	0.0	97	98	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	101	100	1.0	98	98	0.0	70 - 130	30	
% Dibromofluoromethane	90	%	93	91	2.2	90	92	2.2	70 - 130	30	
% Toluene-d8	98	%	98	98	0.0	98	97	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Comment:											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.											
QA/QC Batch 675913 (ug/kg), QC Sample No: CN95953 (CN94953, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94963, CN94965, CN94970)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	111	119	7.0	106	112	5.5	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	101	105	3.9	100	103	3.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	97	103	6.0	95	99	4.1	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	98	104	5.9	98	102	4.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	88	91	3.4	90	93	3.3	70 - 130	30	
1,1-Dichloroethene	ND	5.0	92	97	5.3	95	98	3.1	70 - 130	30	
1,1-Dichloropropene	ND	5.0	101	106	4.8	103	109	5.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	99	103	4.0	78	75	3.9	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	98	104	5.9	97	100	3.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	93	96	3.2	79	76	3.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	99	104	4.9	98	100	2.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	115	126	9.1	102	107	4.8	70 - 130	30	
1,2-Dibromoethane	ND	5.0	105	112	6.5	102	105	2.9	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	95	100	5.1	88	90	2.2	70 - 130	30	
1,2-Dichloroethane	ND	5.0	94	98	4.2	92	98	6.3	70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	102	3.0	98	101	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	100	104	3.9	100	103	3.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	96	99	3.1	90	93	3.3	70 - 130	30	
1,3-Dichloropropane	ND	5.0	101	106	4.8	99	102	3.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	93	96	3.2	87	91	4.5	70 - 130	30	
2,2-Dichloropropane	ND	5.0	99	104	4.9	89	94	5.5	70 - 130	30	
2-Chlorotoluene	ND	5.0	100	105	4.9	98	101	3.0	70 - 130	30	
2-Hexanone	ND	25	94	102	8.2	84	86	2.4	70 - 130	30	
2-Isopropyltoluene	ND	5.0	101	105	3.9	98	100	2.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	100	104	3.9	97	100	3.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	96	103	7.0	91	97	6.4	70 - 130	30	
Acetone	ND	10	70	72	2.8	61	66	7.9	70 - 130	30	m
Acrylonitrile	ND	5.0	82	87	5.9	63	65	3.1	70 - 130	30	m
Benzene	ND	1.0	101	106	4.8	101	105	3.9	70 - 130	30	
Bromobenzene	ND	5.0	100	106	5.8	97	100	3.0	70 - 130	30	
Bromochloromethane	ND	5.0	99	103	4.0	100	104	3.9	70 - 130	30	
Bromodichloromethane	ND	5.0	101	106	4.8	98	105	6.9	70 - 130	30	
Bromoform	ND	5.0	112	121	7.7	101	109	7.6	70 - 130	30	
Bromomethane	ND	5.0	82	88	7.1	84	86	2.4	70 - 130	30	
Carbon Disulfide	ND	5.0	85	88	3.5	84	89	5.8	70 - 130	30	
Carbon tetrachloride	ND	5.0	100	106	5.8	98	104	5.9	70 - 130	30	
Chlorobenzene	ND	5.0	100	106	5.8	99	102	3.0	70 - 130	30	
Chloroethane	ND	5.0	90	86	4.5	91	96	5.3	70 - 130	30	
Chloroform	ND	5.0	93	100	7.3	96	97	1.0	70 - 130	30	
Chloromethane	ND	5.0	99	103	4.0	99	104	4.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	98	99	1.0	99	106	6.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	105	109	3.7	98	104	5.9	70 - 130	30	
Dibromochloromethane	ND	3.0	111	117	5.3	105	110	4.7	70 - 130	30	
Dibromomethane	ND	5.0	100	104	3.9	96	102	6.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	102	107	4.8	109	113	3.6	70 - 130	30	
Ethylbenzene	ND	1.0	104	109	4.7	103	107	3.8	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Hexachlorobutadiene	ND	5.0	95	99	4.1	84	77	8.7	70 - 130	30
Isopropylbenzene	ND	1.0	104	108	3.8	103	107	3.8	70 - 130	30
m&p-Xylene	ND	2.0	101	107	5.8	102	105	2.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	81	87	7.1	75	74	1.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	89	93	4.4	88	91	3.4	70 - 130	30
Methylene chloride	ND	5.0	84	87	3.5	84	87	3.5	70 - 130	30
Naphthalene	ND	5.0	114	120	5.1	89	88	1.1	70 - 130	30
n-Butylbenzene	ND	1.0	96	99	3.1	95	97	2.1	70 - 130	30
n-Propylbenzene	ND	1.0	100	105	4.9	101	105	3.9	70 - 130	30
o-Xylene	ND	2.0	102	108	5.7	102	107	4.8	70 - 130	30
p-Isopropyltoluene	ND	1.0	100	104	3.9	100	101	1.0	70 - 130	30
sec-Butylbenzene	ND	1.0	101	105	3.9	101	102	1.0	70 - 130	30
Styrene	ND	5.0	101	107	5.8	97	101	4.0	70 - 130	30
tert-Butylbenzene	ND	1.0	104	109	4.7	102	105	2.9	70 - 130	30
Tetrachloroethene	ND	5.0	99	104	4.9	100	106	5.8	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	85	92	7.9	84	88	4.7	70 - 130	30
Toluene	ND	1.0	102	107	4.8	102	107	4.8	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	90	94	4.3	90	94	4.3	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	110	115	4.4	100	107	6.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	87	93	6.7	75	79	5.2	70 - 130	30
Trichloroethene	ND	5.0	101	106	4.8	99	103	4.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	92	97	5.3	97	101	4.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	85	89	4.6	92	92	0.0	70 - 130	30
Vinyl chloride	ND	5.0	94	98	4.2	96	100	4.1	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	100	99	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	99	%	100	102	2.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	92	%	94	96	2.1	95	95	0.0	70 - 130	30
% Toluene-d8	99	%	99	99	0.0	99	100	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 675913H (ug/kg), QC Sample No: CN95953 50X (CN94954 (1000X) , CN94967 (1000X) , CN94971 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	122	118	3.3	109	115	5.4	70 - 130	30
1,1,1-Trichloroethane	ND	250	105	104	1.0	97	100	3.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	110	108	1.8	109	109	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	250	113	109	3.6	112	110	1.8	70 - 130	30
1,1-Dichloroethane	ND	250	99	95	4.1	96	99	3.1	70 - 130	30
1,1-Dichloroethene	ND	250	77	78	1.3	71	90	23.6	70 - 130	30
1,1-Dichloropropene	ND	250	116	113	2.6	115	117	1.7	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	128	128	0.0	125	122	2.4	70 - 130	30
1,2,3-Trichloropropane	ND	250	109	111	1.8	111	111	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	127	125	1.6	123	120	2.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	121	120	0.8	121	121	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	125	125	0.0	114	115	0.9	70 - 130	30
1,2-Dibromoethane	ND	250	121	120	0.8	118	117	0.9	70 - 130	30
1,2-Dichlorobenzene	ND	250	117	116	0.9	114	115	0.9	70 - 130	30
1,2-Dichloroethane	ND	250	106	104	1.9	107	106	0.9	70 - 130	30
1,2-Dichloropropane	ND	250	111	107	3.7	110	110	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	122	121	0.8	121	123	1.6	70 - 130	30
1,3-Dichlorobenzene	ND	250	119	117	1.7	118	118	0.0	70 - 130	30
1,3-Dichloropropane	ND	250	115	114	0.9	113	113	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	250	117	117	0.0	116	116	0.0	70 - 130	30	
2,2-Dichloropropane	ND	250	105	104	1.0	75	90	18.2	70 - 130	30	
2-Chlorotoluene	ND	250	121	120	0.8	119	122	2.5	70 - 130	30	
2-Hexanone	ND	1300	100	96	4.1	99	97	2.0	70 - 130	30	
2-Isopropyltoluene	ND	250	120	120	0.0	119	121	1.7	70 - 130	30	
4-Chlorotoluene	ND	250	122	121	0.8	123	122	0.8	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	101	99	2.0	104	102	1.9	70 - 130	30	
Acetone	ND	500	61	56	8.5	61	62	1.6	70 - 130	30	l,m
Acrylonitrile	ND	250	91	87	4.5	92	90	2.2	70 - 130	30	
Benzene	ND	250	115	113	1.8	115	116	0.9	70 - 130	30	
Bromobenzene	ND	250	120	118	1.7	118	120	1.7	70 - 130	30	
Bromochloromethane	ND	250	113	108	4.5	109	106	2.8	70 - 130	30	
Bromodichloromethane	ND	250	110	105	4.7	102	106	3.8	70 - 130	30	
Bromoform	ND	250	113	108	4.5	102	106	3.8	70 - 130	30	
Bromomethane	ND	250	67	67	0.0	61	70	13.7	70 - 130	30	l,m
Carbon Disulfide	ND	250	71	71	0.0	63	79	22.5	70 - 130	30	m
Carbon tetrachloride	ND	250	98	94	4.2	77	90	15.6	70 - 130	30	
Chlorobenzene	ND	250	118	117	0.9	117	118	0.9	70 - 130	30	
Chloroethane	ND	250	25	24	4.1	24	26	8.0	70 - 130	30	l,m
Chloroform	ND	250	108	105	2.8	103	105	1.9	70 - 130	30	
Chloromethane	ND	250	110	106	3.7	106	107	0.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	108	107	0.9	107	107	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	115	112	2.6	104	109	4.7	70 - 130	30	
Dibromochloromethane	ND	150	119	114	4.3	108	111	2.7	70 - 130	30	
Dibromomethane	ND	250	113	109	3.6	111	110	0.9	70 - 130	30	
Dichlorodifluoromethane	ND	250	112	110	1.8	106	114	7.3	70 - 130	30	
Ethylbenzene	ND	250	122	120	1.7	120	122	1.7	70 - 130	30	
Hexachlorobutadiene	ND	250	124	125	0.8	118	124	5.0	70 - 130	30	
Isopropylbenzene	ND	250	124	122	1.6	120	125	4.1	70 - 130	30	
m&p-Xylene	ND	250	121	119	1.7	119	120	0.8	70 - 130	30	
Methyl ethyl ketone	ND	250	84	81	3.6	85	87	2.3	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	101	98	3.0	98	97	1.0	70 - 130	30	
Methylene chloride	ND	250	92	89	3.3	89	91	2.2	70 - 130	30	
Naphthalene	ND	250	139	137	1.4	134	130	3.0	70 - 130	30	l,m
n-Butylbenzene	ND	250	123	122	0.8	122	123	0.8	70 - 130	30	
n-Propylbenzene	ND	250	123	121	1.6	122	125	2.4	70 - 130	30	
o-Xylene	ND	250	121	121	0.0	119	121	1.7	70 - 130	30	
p-Isopropyltoluene	ND	250	124	124	0.0	123	124	0.8	70 - 130	30	
sec-Butylbenzene	ND	250	122	122	0.0	121	124	2.4	70 - 130	30	
Styrene	ND	250	121	119	1.7	119	120	0.8	70 - 130	30	
tert-Butylbenzene	ND	250	122	122	0.0	121	124	2.4	70 - 130	30	
Tetrachloroethene	ND	250	118	115	2.6	116	116	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	96	90	6.5	97	93	4.2	70 - 130	30	
Toluene	ND	250	119	115	3.4	117	118	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	100	96	4.1	96	99	3.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	124	117	5.8	105	111	5.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	95	90	5.4	81	85	4.8	70 - 130	30	
Trichloroethene	ND	250	115	112	2.6	112	116	3.5	70 - 130	30	
Trichlorofluoromethane	ND	250	21	20	4.9	21	27	25.0	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	82	81	1.2	75	90	18.2	70 - 130	30	
Vinyl chloride	ND	250	101	97	4.0	98	102	4.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	99	98	1.0	70 - 130	30	
% Bromofluorobenzene	98	%	99	99	0.0	99	98	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Dibromofluoromethane	88	%	93	92	1.1	92	91	1.1	70 - 130	30
% Toluene-d8	99	%	98	98	0.0	100	99	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 676797H (ug/kg), QC Sample No: CN97754 50X (CN94954 (500X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	107	106	0.9	94	100	6.2	70 - 130	30	
1,1,1-Trichloroethane	ND	250	105	103	1.9	93	98	5.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	103	103	0.0	91	99	8.4	70 - 130	30	
1,1,2-Trichloroethane	ND	250	97	98	1.0	88	96	8.7	70 - 130	30	
1,1-Dichloroethane	ND	250	101	99	2.0	90	96	6.5	70 - 130	30	
1,1-Dichloroethene	ND	250	96	93	3.2	85	89	4.6	70 - 130	30	
1,1-Dichloropropene	ND	250	112	110	1.8	100	106	5.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	107	110	2.8	87	98	11.9	70 - 130	30	
1,2,3-Trichloropropane	ND	250	95	95	0.0	85	92	7.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	113	114	0.9	93	102	9.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	109	109	0.0	88	99	11.8	70 - 130	30	
1,2-Dibromoethane	ND	250	104	105	1.0	94	99	5.2	70 - 130	30	
1,2-Dichlorobenzene	ND	250	104	103	1.0	93	99	6.3	70 - 130	30	
1,2-Dichloroethane	ND	250	97	97	0.0	87	93	6.7	70 - 130	30	
1,2-Dichloropropane	ND	250	100	101	1.0	91	97	6.4	70 - 130	30	
1,3-Dichlorobenzene	ND	250	107	106	0.9	94	100	6.2	70 - 130	30	
1,3-Dichloropropane	ND	250	104	104	0.0	94	101	7.2	70 - 130	30	
1,4-Dichlorobenzene	ND	250	106	104	1.9	93	98	5.2	70 - 130	30	
2,2-Dichloropropane	ND	250	105	104	1.0	90	96	6.5	70 - 130	30	
2-Chlorotoluene	ND	250	109	107	1.9	98	103	5.0	70 - 130	30	
2-Hexanone	ND	1300	101	102	1.0	90	98	8.5	70 - 130	30	
2-Isopropyltoluene	ND	250	110	108	1.8	99	104	4.9	70 - 130	30	
4-Chlorotoluene	ND	250	109	108	0.9	97	102	5.0	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	96	97	1.0	85	94	10.1	70 - 130	30	
Acetone	ND	500	74	69	7.0	70	76	8.2	70 - 130	30	l
Acrylonitrile	ND	250	93	92	1.1	84	91	8.0	70 - 130	30	
Benzene	ND	250	106	105	0.9	96	103	7.0	70 - 130	30	
Bromobenzene	ND	250	106	104	1.9	95	101	6.1	70 - 130	30	
Bromochloromethane	ND	250	97	98	1.0	88	95	7.7	70 - 130	30	
Bromodichloromethane	ND	250	100	100	0.0	87	95	8.8	70 - 130	30	
Bromoform	ND	250	108	106	1.9	87	97	10.9	70 - 130	30	
Bromomethane	ND	250	78	78	0.0	65	74	12.9	70 - 130	30	m
Carbon Disulfide	ND	250	86	84	2.4	74	78	5.3	70 - 130	30	
Carbon tetrachloride	ND	250	106	105	0.9	88	96	8.7	70 - 130	30	
Chlorobenzene	ND	250	105	105	0.0	96	101	5.1	70 - 130	30	
Chloroethane	ND	250	43	42	2.4	37	40	7.8	70 - 130	30	l,m
Chloroform	ND	250	101	99	2.0	90	95	5.4	70 - 130	30	
Chloromethane	ND	250	103	101	2.0	88	97	9.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	103	103	0.0	94	99	5.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	103	104	1.0	91	99	8.4	70 - 130	30	
Dibromochloromethane	ND	150	106	105	0.9	89	97	8.6	70 - 130	30	
Dibromomethane	ND	250	99	99	0.0	88	96	8.7	70 - 130	30	
Dichlorodifluoromethane	ND	250	111	109	1.8	97	102	5.0	70 - 130	30	
Hexachlorobutadiene	ND	250	115	113	1.8	100	107	6.8	70 - 130	30	
Isopropylbenzene	ND	250	113	111	1.8	101	107	5.8	70 - 130	30	

QA/QC Data

SDG I.D.: GCN94953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Methyl ethyl ketone	ND	250	88	90	2.2	79	88	10.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	93	94	1.1	83	89	7.0	70 - 130	30
Methylene chloride	ND	250	80	79	1.3	74	78	5.3	70 - 130	30
n-Butylbenzene	ND	250	117	115	1.7	103	108	4.7	70 - 130	30
p-Isopropyltoluene	ND	250	115	112	2.6	102	108	5.7	70 - 130	30
sec-Butylbenzene	ND	250	114	111	2.7	102	108	5.7	70 - 130	30
Styrene	ND	250	105	105	0.0	96	101	5.1	70 - 130	30
tert-Butylbenzene	ND	250	112	109	2.7	101	106	4.8	70 - 130	30
Tetrachloroethene	ND	250	109	107	1.9	93	97	4.2	70 - 130	30
Tetrahydrofuran (THF)	ND	250	91	91	0.0	82	89	8.2	70 - 130	30
Toluene	ND	250	106	105	0.9	96	103	7.0	70 - 130	30
trans-1,2-Dichloroethene	ND	250	92	91	1.1	83	87	4.7	70 - 130	30
trans-1,3-Dichloropropene	ND	250	102	103	1.0	89	97	8.6	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	106	106	0.0	88	98	10.8	70 - 130	30
Trichloroethene	ND	250	107	105	1.9	95	100	5.1	70 - 130	30
Trichlorofluoromethane	ND	250	33	32	3.1	28	30	6.9	70 - 130	30
Trichlorotrifluoroethane	ND	250	93	90	3.3	81	85	4.8	70 - 130	30
Vinyl chloride	ND	250	99	98	1.0	89	95	6.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	98	1.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	93	%	98	98	0.0	98	99	1.0	70 - 130	30
% Dibromofluoromethane	94	%	97	97	0.0	94	95	1.1	70 - 130	30
% Toluene-d8	95	%	97	98	1.0	97	99	2.0	70 - 130	30

l,m

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

- l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
- m = This parameter is outside laboratory MS/MSD specified recovery limits.
- r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 June 27, 2023

Tuesday, June 27, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN94953 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN94954	\$8260MAR	Total Xylenes	CT / RSR GB (mg/kg) / Volatiles	170000	6800	19500	19500	ug/Kg
CN94954	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC I/C (mg/kg) / Volatiles	ND	340	67	67	ug/Kg
CN94954	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC RES (mg/kg) / APS Organics	ND	680	90	90	ug/Kg
CN94954	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	340	7	7	ug/Kg
CN94954	\$8260MAR	Vinyl chloride	CT / RSR DEC RES (mg/kg) / Volatiles	ND	340	320	320	ug/Kg
CN94954	\$8260MAR	Bromomethane	CT / RSR GB (mg/kg) / APS Organics	ND	1400	700	700	ug/Kg
CN94954	\$8260MAR	1,2,4-Trimethylbenzene	CT / RSR GB (mg/kg) / APS Organics	130000	6800	28000	28000	ug/Kg
CN94954	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	680	40	40	ug/Kg
CN94954	\$8260MAR	1,3,5-Trimethylbenzene	CT / RSR GB (mg/kg) / APS Organics	37000	6800	28000	28000	ug/Kg
CN94954	\$8260MAR	Tetrahydrofuran (THF)	CT / RSR GB (mg/kg) / APS Organics	ND	1700	800	800	ug/Kg
CN94954	\$8260MAR	n-Propylbenzene	CT / RSR GB (mg/kg) / APS Organics	20000	6800	10000	10000	ug/Kg
CN94954	\$8260MAR	Bromodichloromethane	CT / RSR GB (mg/kg) / APS Organics	ND	680	210	210	ug/Kg
CN94954	\$8260MAR	1,1,1,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	680	200	200	ug/Kg
CN94954	\$8260MAR	Methylene chloride	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN94954	\$8260MAR	Dibromochloromethane	CT / RSR GB (mg/kg) / Volatiles	ND	680	100	100	ug/Kg
CN94954	\$8260MAR	Benzene	CT / RSR GB (mg/kg) / Volatiles	ND	340	200	200	ug/Kg
CN94954	\$8260MAR	Acrylonitrile	CT / RSR GB (mg/kg) / Volatiles	ND	340	100	100	ug/Kg
CN94954	\$8260MAR	1,2-Dichloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	340	200	200	ug/Kg
CN94954	\$8260MAR	1,2-Dibromoethane	CT / RSR GB (mg/kg) / Volatiles	ND	340	100	100	ug/Kg
CN94954	\$8260MAR	1,1,2,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	680	100	100	ug/Kg
CN94954	\$8260MAR	Ethylbenzene	CT / RSR GB (mg/kg) / Volatiles	45000	6800	10100	10100	ug/Kg
CN94966	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3000	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2700	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3000	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2700	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3000	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2100	270	1000	1000	ug/Kg
CN94966	\$8270-SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CN94967	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC I/C (mg/kg) / Volatiles	ND	73	67	67	ug/Kg
CN94967	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC RES (mg/kg) / APS Organics	ND	150	90	90	ug/Kg
CN94967	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	73	7	7	ug/Kg
CN94967	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	150	40	40	ug/Kg
CN94967	\$8260MAR	Naphthalene	CT / RSR GB (mg/kg) / Semivolatiles	77000	15000	56000	56000	ug/Kg
CN94967	\$8260MAR	Benzene	CT / RSR GB (mg/kg) / Volatiles	230	200	200	200	ug/Kg
CN94967	\$8260MAR	Dibromochloromethane	CT / RSR GB (mg/kg) / Volatiles	ND	150	100	100	ug/Kg
CN94967	\$8260MAR	1,1,2,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	150	100	100	ug/Kg

Tuesday, June 27, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN94953 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN94967	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	5100	650	2500	2500	mg/Kg
CN94967	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	5100	650	500	500	mg/Kg
CN94967	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GB (mg/kg) / Pesticides/TPH	5100	650	2500	2500	mg/Kg
CN94968	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	1300	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1700	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1300	250	1000	1000	ug/Kg
CN94968	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1100	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2700	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2000	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1100	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	2200	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1200	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2000	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2700	250	1000	1000	ug/Kg
CN94969	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2100	250	1000	1000	ug/Kg
CN94971	\$8260MER	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	25	7	7	ug/Kg
CN94971	\$8260MER	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	50	40	40	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CN94953-CN94971

Sampling Date(s): 5/1/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the YPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Tuesday, June 27, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 27, 2023

SDG I.D.: GCN94953

SDG Comments

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Not all requested reporting levels were achieved due to the presence of target and non target compounds. Please refer to the Sample Criteria Exceedances section of this report.

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Lead is reported for some of the samples as requested on the chain of custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676002 (Samples: CN94956, CN94957, CN94958, CN94959, CN94960, CN94961, CN94962, CN94963, CN94964, CN94966, CN94967, CN94968, CN94969): -----

The MS/MSD RPD exceeds the method criteria, therefore there may be variability in the reported result. (Ext. Petroleum H.C. (C9-C36), % COD (surr), % Terphenyl (surr))

Instrument:

AU-FID1 05/05/23-1 Jeff Bucko, Chemist 05/05/23

CN94966 (5X), CN94967 (10X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (505A006_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 05/04/23-1 Jeff Bucko, Chemist 05/04/23

CN94956 (1X), CN94960 (1X), CN94968 (1X), CN94969 (1X)

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (504A003A_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 05/04/23-1 Jeff Bucko, Chemist 05/04/23

CN94953 (1X), CN94954 (1X), CN94955 (1X), CN94957 (1X), CN94959 (1X), CN94961 (1X), CN94962 (1X), CN94963 (1X), CN94964 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (504A020_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 05/08/23-1 Jeff Bucko, Chemist 05/08/23

CN94958 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (508A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CN94958

Preceding CC 508A003 - None.

Succeeding CC 508A016_1 - % Cod (surr) 31%H (30%), ETPH (C9-C36) 32%H (30%)

QC (Batch Specific):



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 27, 2023

SDG I.D.: GCN94953

ETPH Narration

Batch 675993 (CN94680)

CN94953, CN94954, CN94955

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QC (Site Specific):

Batch 676002 (CN94960)

CN94956, CN94957, CN94958, CN94959, CN94960, CN94961, CN94962, CN94963, CN94964, CN94966, CN94967, CN94968, CN94969

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: % COD (surr)(38.7%), % Terphenyl (surr)(39.5%), Ext.

Petroleum H.C. (C9-C36)(43.3%)

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/02/23 15:55

Alexander Latka, Chemist 05/02/23

CN94953, CN94966

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 06/21/23 09:00

Alexander Latka, Chemist 06/21/23

CN94966

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.



Environmental Laboratories, Inc.
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Certification Report

June 27, 2023

SDG I.D.: GCN94953

Mercury Narration

QC (Batch Specific):

Batch 675587 (CN94641)

CN94953, CN94966

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 683376 (CO11308)

CN94966

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 06/27/23 09:50

Tina Hall, Chemist 06/27/23

CN94966

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/04/23 11:18

Ian Enders, Chemist 05/04/23

CN94953, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94966

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 675747 (CN95974)

CN94953, CN94955

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 683383 (CO00632)

CN94966



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Certification Report

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SDG I.D.: GCN94953

ICP Metals Narration

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 675748 (CN94956)

CN94956, CN94957, CN94958, CN94961, CN94962, CN94966

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD7 05/05/23-1

Saadia Chudary, Chemist 05/05/23

CN94966 (10X)

The initial calibration (PC0418A1) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0418B1) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CN94966

Preceding CC 505B016 - None.

Succeeding CC 505B029 - DCBP SURR -19%L (15%)

QC (Batch Specific):

Batch 676172 (CN95280)

CN94966

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration



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SDG I.D.: GCN94953

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676178 (Samples: CN94953): -----

The LCSD recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (3,3"-Dichlorobenzidine)

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s) so no significant variability is suspected. (3,3"-Dichlorobenzidine)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Aniline, Pyridine)

The QC recoveries for one analyte are below the method criteria. A low bias is likely. (Benzidine)

The QC recoveries for one analyte are below the lower range. A low bias is possible. (Pyridine)

QC Batch 676227 (Samples: CN94954, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94964): -----

The MS/MSD RPD exceeds the method criteria for one analyte and a surrogate, therefore there may be variability in the reported result. (Naphthalene, % Nitrobenzene-d5)

QC Batch 676228 (Samples: CN94966, CN94968, CN94969): -----

Several QC recoveries are below the lower range. A low bias is possible. (Pyridine)

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (2,4-Dinitrophenol, 4-Nitrophenol)

The LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Aniline)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is possible. (3,3"-Dichlorobenzidine, 4-Chloroaniline, Benzo(b)fluoranthene, Fluoranthene, Hexachlorocyclopentadiene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (3,3"-Dichlorobenzidine, 3-Nitroaniline)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (3,3"-Dichlorobenzidine, 4-Chloroaniline, Benz(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Chrysene, Fluoranthene, Pyrene)

The QC recoveries for one analyte are below the method criteria. A low bias is possible. (Benzidine)

Instrument:

CHEM06 05/04/23-2

Keith Aloisa, Chemist 05/04/23

CN94953 (1X, 1000X)



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SDG I.D.: GCN94953

SVOA Narration

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0504):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.047 (0.1), Hexachlorobenzene 0.091 (0.1)

The following compounds did not meet a minimum response factors: 2-Nitrophenol 0.047 (0.05)

Continuing Calibration Verification (CHEM06/0504_25-6_SPLIT_0504):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.053 (0.1), Hexachlorobenzene 0.092 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM06 05/05/23-1

Matt Richard, Chemist 05/05/23

CN94966 (1X), CN94968 (1X), CN94969 (1X, 1000X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0504):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.047 (0.1), Hexachlorobenzene 0.091 (0.1)

The following compounds did not meet a minimum response factors: 2-Nitrophenol 0.047 (0.05)

Continuing Calibration Verification (CHEM06/0505_03-6_SPLIT_0504):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.042 (0.1), Hexachlorobenzene 0.092 (0.1), Pentachloronitrobenzene 0.046 (0.05)

The following compounds did not meet minimum response factors: None.

CHEM19 05/05/23-1

Matt Richard, Chemist 05/05/23

CN94954 (1X), CN94955 (1X), CN94956 (1X), CN94957 (1X), CN94958 (1X), CN94961 (1X), CN94962 (1X), CN94964 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):

100% of target compounds met criteria.



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RCP Certification Report

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SDG I.D.: GCN94953

SVOA Narration

The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0505_08-19_BN_0419):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM19 05/08/23-1 Matt Richard, Chemist 05/08/23

CN94960 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0508_03-19_BN_0419):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 676636 (CN96298)

CN94960

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 676178 (CN94953)

CN94953

All LCS recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Pyridine(26%)
All LCSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(38%), Benzidine(<10%), Pyridine(26%)



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SDG I.D.: GCN94953

SVOA Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(31.1%)
All MS recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Pyridine(16%)
All MSD recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Pyridine(28%)
All MS/MSD RPDs were less than 30% with the following exceptions: Aniline(56.5%), Pyridine(54.5%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 676227 (CN94960)

CN94954, CN94955, CN94956, CN94957, CN94958, CN94961, CN94962, CN94964
All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % Nitrobenzene-d5(34.6%), Naphthalene(38.6%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 676228 (CN94969)

CN94966, CN94968, CN94969
All LCS recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(135%), Benzidine(<10%)
All LCSD recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(149%), 4-Nitrophenol(132%), Aniline(<10%), Benzidine(<10%), Pyridine(<10%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(36.6%), 3-Nitroaniline(44.2%)
All MS recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Benzo(b)fluoranthene(36%), Fluoranthene(32%), Hexachlorocyclopentadiene(<10%)
All MSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(25%), 4-Chloroaniline(32%), Benzidine(<10%), Hexachlorocyclopentadiene(<10%), Pyridine(<10%)
All MS/MSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(46.2%), 4-Chloroaniline(31.6%), Benz(a)anthracene(37.0%), Benzo(a)pyrene(33.6%), Benzo(b)fluoranthene(60.2%), Chrysene(44.4%), Fluoranthene(72.0%), Pyrene(66.7%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration



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RCP Certification Report

June 27, 2023

SDG I.D.: GCN94953

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 675913H: -----

Several QC recoveries are below the lower range. A low bias is possible. (Bromomethane)

The QC recoveries for one analyte are below the lower range. A low bias is possible. (Acetone)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

The QC recovery for one analyte is above the upper range, therefore a slight high bias is possible. (Naphthalene)

QC Batch 676168H: -----

The LCS recovery is above the upper range for one analyte that was not reported in the sample(s). No significant bias is suspected. (1,2,4-Trichlorobenzene)

The QC recoveries for one or more analytes is below the lower range. A low bias is possible. (Acetone, Bromomethane, Carbon Disulfide)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 676797H: -----

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Acetone)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM03 05/08/23-1

Jane Li, Chemist 05/08/23

CN94954 (500X)

Initial Calibration Evaluation (CHEM03/VT-L042823):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 21% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0508_02-VT-L042823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/02/23-2

Harry Mullin, Chemist 05/02/23



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RCP Certification Report

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SDG I.D.: GCN94953

VOA Narration

CN94953 (1X), CN94954 (1000X), CN94955 (1X), CN94956 (1X), CN94957 (1X), CN94958 (1X), CN94961 (1X), CN94962 (1X), CN94963 (1X), CN94965 (1X), CN94967 (1000X), CN94970 (1X), CN94971 (50X)

Initial Calibration Evaluation (CHEM31/VT-L050123):

91% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 28% (20%), Acetone 24% (20%), Bromoform 27% (20%), Bromomethane 23% (20%), Chloroethane 28% (20%), Dibromochloromethane 21% (20%), Naphthalene 21% (20%), trans-1,3-Dichloropropene 27% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.081 (0.1), Bromoform 0.087 (0.1), Tetrachloroethene 0.145 (0.2), Trichloroethene 0.198 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0502_35-VT-L050123):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/03/23-1

Harry Mullin, Chemist 05/03/23

CN94967 (50X), CN94968 (1X), CN94969 (1X)

Initial Calibration Evaluation (CHEM31/VT-L050123):

91% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 28% (20%), Acetone 24% (20%), Bromoform 27% (20%), Bromomethane 23% (20%), Chloroethane 28% (20%), Dibromochloromethane 21% (20%), Naphthalene 21% (20%), trans-1,3-Dichloropropene 27% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.081 (0.1), Bromoform 0.087 (0.1), Tetrachloroethene 0.145 (0.2), Trichloroethene 0.198 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0503_02-VT-L050123):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Acetone 31%L (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 675913 (CN95953)

CHEM31 5/2/2023-2

CN94953(1X), CN94955(1X), CN94956(1X), CN94957(1X), CN94958(1X), CN94961(1X), CN94962(1X), CN94963(1X), CN94965(1X), CN94970(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 675913H (CN95953)

CHEM31 5/2/2023-2

CN94954(1000X), CN94967(1000X), CN94971(50X)



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RCP Certification Report

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SDG I.D.: GCN94953

VOA Narration

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(61%), Bromomethane(67%), Chloroethane(25%), Naphthalene(139%), Trichlorofluoromethane(21%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(56%), Bromomethane(67%), Chloroethane(24%), Naphthalene(137%), Trichlorofluoromethane(20%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676168 (CN95831) CHEM31 5/3/2023-1

CN94968(1X), CN94969(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676168H (CN95831) CHEM31 5/3/2023-1

CN94967(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,2,4-Trichlorobenzene(132%), Acetone(59%), Bromomethane(65%), Carbon Disulfide(68%), Chloroethane(24%), Trichlorofluoromethane(21%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(59%), Bromomethane(64%), Carbon Disulfide(69%), Chloroethane(24%), Trichlorofluoromethane(20%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676797H (CN97754) CHEM03 5/8/2023-1

CN94954(500X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(43%), Trichlorofluoromethane(33%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(69%), Chloroethane(42%), Trichlorofluoromethane(32%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: Tighe & Bond, Inc.
Address: 213 Court Street, Suite 1100
 Middletown, CT

Project: Brainard Airport
Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
Invoice to: Tighe and Bond Westfield
QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Sampler's Signature: *[Signature]* **Date:** 5/1/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = (Other)

Analysis Request	CT EPH (DPH METHOD)	VOCs (EPA 820/835)	PAHs (EPA 8270)	Total RSP 15 Metals	Total Arsenic	Total Lead	Total PCBs (CB2)	GL Soil Containr (8) oz	GL Soil Containr (1 methanol) (2) H2O	40 ml VOC Vial (As Is) [HCl]	PL As Is (250ml) [As Is] [H2SO4]	PL H2SO4 (250ml) [1000ml]	PL HNO3 250ml	PL HNO3 250ml	Bacteria Bottle white	Bacteria Bottle as is	Hold	
CT EPH (DPH METHOD)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
VOCs (EPA 820/835)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PAHs (EPA 8270)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Total RSP 15 Metals	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Total Arsenic	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Total Lead	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Total PCBs (CB2)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
GL Soil Containr (8) oz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
GL Soil Containr (1 methanol) (2) H2O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
40 ml VOC Vial (As Is) [HCl]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PL As Is (250ml) [As Is] [H2SO4]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PL H2SO4 (250ml) [1000ml]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PL HNO3 250ml	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PL HNO3 250ml	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bacteria Bottle white	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Bacteria Bottle as is	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Hold	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished by: *[Signature]* **Accepted by:** *[Signature]*
Date: 5/1/23
Time: 1611
 1638
Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

RI
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1
 GW-2
 GW-3
 S-1 GW-1
 S-1 GW-2
 S-1 GW-3
 S-2 GW-1
 S-2 GW-2
 S-2 GW-3
 S-3 GW-1
 S-3 GW-2
 S-3 GW-3
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

State where samples were collected: CT

*SURCHARGE APPLIES

*MMSD are considered site samples and will be billed as such in accordance with the prices quoted.

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:39 AM
To: Shannon Wilhelm; Sarah Bell; Jill L. Libby
Subject: RE: SPLP Analysis

Yes, that is fine. Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

www.tighebond.com | halvorsondesign.com



From: Shannon Wilhelm <shannon@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:37 AM
To: Mark Paulsson <MPaulsson@TigheBond.com>; Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

Also, I just realized the SPLP HG would be past holding time too. Okay to proceed?

Shannon Wilhelm
Client Services Representative
Phoenix Environmental Laboratories
587 East Middle Turnpike

Manchester CT 06040
860-645-1102

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:28 AM
To: Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Cc: Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

Yes, please do. Thanks!

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484
w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:26 AM
To: Jill L. Libby <JLLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>; Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

[**Caution - External Sender**]

SPLP Pesticides are past holding time do you still want to run?

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
[Website: www.phoenixlabs.com](http://www.phoenixlabs.com)

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Tuesday, June 20, 2023 9:52 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

Thanks Sarah,
Could I please get the following SPLP analysis added with 5-day TAT?

Jill

SPLP Chromium (Total)	B-43	CN94966
SPLP Lead	B-43	CN94966
SPLP Mercury	B-43	CN94966
SPLP Lead	HA-1	CO00632
SPLP Lead	HA-5	CO00634
SPLP Lead	HA-9	CO00636
SPLP Lead	HA-10	CO00637
SPLP Lead	HA-44	CO00644
SPLP Lead	HA-46	CO00646
SPLP Lead	HA-47	CO00647
SPLP Vanadium	HA-39	CO00651
SPLP Copper	HA-24	CO01220
SPLP Lead	HA-24	CO01220
SPLP Zinc	HA-24	CO01220

SPLP Zinc	HA-25	CO01221
SPLP Lead	HA-26	CO01222
SPLP Pesticides	HA-26	CO01222
SPLP Lead	HA-28	CO01224
SPLP Lead	HA-29	CO01225
SPLP Lead	HA-30	CO01226
SPLP Lead	HA-31	CO01227
SPLP Lead	HA-32	CO01228
SPLP Pesticides	HA-32	CO01228
SPLP Barium	B-88	CO08010
SPLP Beryllium	B-88	CO08010
SPLP Nickel	B-88	CO08010
SPLP Vanadium	B-88	CO08010
SPLP Barium	DUP-8	CO08011
SPLP Beryllium	DUP-8	CO08011
SPLP Nickel	DUP-8	CO08011
SPLP Vanadium	DUP-8	CO08011
SPLP Barium	B-90	CO08015
SPLP Barium	B-92	CO08016
SPLP Beryllium	B-92	CO08016
SPLP Chromium (Total)	B-92	CO08016
SPLP Nickel	B-92	CO08016
SPLP Vanadium	B-92	CO08016
SPLP Copper	B-108	CO09181
SPLP Vanadium	B-108	CO09181
SPLP Barium	B-122	CO10278
SPLP Chromium (Total)	B-122	CO10278
SPLP Barium	B-123	CO10279
SPLP Mercury	B-123	CO10279
SPLP Chromium (Total)	B-127	CO10282
SPLP Copper	B-127	CO10282
SPLP Nickel	B-127	CO10282
SPLP Chromium (Total)	B-135	CO11308

SPLP Lead	B-135	CO11308
SPLP Mercury	B-135	CO11308
SPLP Copper	B-145	CO11311
SPLP Zinc	B-145	CO11311
SPLP Pesticides	HA-34	CO11319
SPLP Pesticides	HA-40	CO11322
SPLP Pesticides	DUP-13	CO11323

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby *(she/her/hers)*

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090

w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Friday, June 16, 2023 4:06 PM
To: Jill L. Libby <JLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

We should have the rest there are only like 3 we won't have I put NO in the box

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
[Website: www.phoenixlabs.com](http://www.phoenixlabs.com)

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Friday, June 16, 2023 12:43 PM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: SPLP Analysis

Sarah,
We are thinking of running the following samples for some SPLP metals. Could you please let us know if you have the following samples still? If you, we will let you know which metals/pests to run on which samples.
Thanks,
Jill

ID	lab ID	Still have?
B-108	CO09181	
B-112	CN92792	NO
B-122	CO10278	
B-123	CO10279	
B-127	CO10282	
B-135	CO11308	
B-145	CO11311	
B-3	CN93805	NO
B-43	CN94966	
B-88	CO08010	
B-90	CO08015	
B-92	CO08016	

B-93	CN93820	NO
DUP-13	CO11323	
DUP-8	CO08011	
HA-1	CO00632	
HA-10	CO00637	
HA-24	CO01220	
HA-25	CO01221	
HA-26	CO01222	
HA-26	CO01222	
HA-28	CO01224	
HA-29	CO01225	
HA-30	CO01226	
HA-31	CO01227	
HA-32	CO01228	
HA-32	CO01228	
HA-34	CO11319	
HA-39	CO00651	
HA-40	CO11322	
HA-44	CO00644	
HA-46	CO00646	
HA-47	CO00647	
HA-5	CO00634	
HA-9	CO00636	

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby (she/her/hers)

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090
w: tighebond.com | halvorsondesign.com





Monday, May 15, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCN97567
Sample ID#s: CN97567 - CN97571, CN97663 - CN97664

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 15, 2023

SDG I.D.: GCN97567

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
HA-16 (0-0.5)	CN97567	SOIL
HA-20 (0-0.5)	CN97568	SOIL
HA-22 (0-0.5)	CN97569	SOIL
B-132 (0-2)	CN97570	SOIL
HA-36 (0-0.5)	CN97571	SOIL
TB LL	CN97663	SOIL
TB HL	CN97664	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/03/23
 05/04/23

Time

7:35
 11:21

Laboratory Data

SDG ID: GCN97567
 Phoenix ID: CN97567

Project ID: BRAINARD AIRPORT
 Client ID: HA-16 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		05/04/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/11/23	C/F	SW3546
Soil Extraction for PCB	Completed				05/09/23	P/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	220	65	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	Interference		%	1	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	64		%	1	05/12/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	430	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1221	ND	430	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1232	ND	430	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1242	ND	430	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1248	ND	430	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1254	ND	430	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1260	ND	430	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1262	ND	430	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1268	ND	430	ug/Kg	10	05/10/23	SC	SW8082A

QA/QC Surrogates

% DCBP	81		%	10	05/10/23	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	05/10/23	SC	30 - 150 %
% TCMX	80		%	10	05/10/23	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	05/10/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

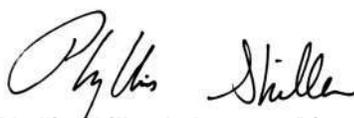
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/03/23
 05/04/23

Time

7:36
 11:21

Laboratory Data

SDG ID: GCN97567
 Phoenix ID: CN97568

Project ID: BRAINARD AIRPORT
 Client ID: HA-20 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		05/04/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/11/23	C/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	190	67	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	104		%	1	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	56		%	1	05/12/23	JRB	50 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

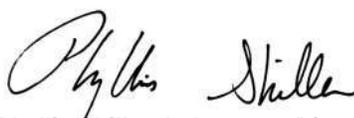
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/03/23
 05/04/23

Time

7:40
 11:21

Laboratory Data

SDG ID: GCN97567
 Phoenix ID: CN97569

Project ID: BRAINARD AIRPORT
 Client ID: HA-22 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/03/23		SW5035A
Extraction of ETPH	Completed				05/11/23	C/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/10/23	B/MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	190	66	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	128		%	1	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	63		%	1	05/12/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.66	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/06/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/06/23	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	05/06/23	JLI	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Benzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Bromoform	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Chloroform	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	05/06/23	JLI	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	05/06/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/06/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/06/23	JLI	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Styrene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/06/23	JLI	SW8260C
Toluene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/06/23	JLI	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/06/23	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	05/06/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	91		%	1	05/06/23	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	05/06/23	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	05/06/23	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/06/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthylene	860	300	ug/Kg	1	05/11/23	KCA	SW8270D
Anthracene	630	300	ug/Kg	1	05/11/23	KCA	SW8270D
Benz(a)anthracene	2400	300	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(a)pyrene	3000	300	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	4200	300	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	1800	300	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	1300	300	ug/Kg	1	05/11/23	KCA	SW8270D
Chrysene	3000	300	ug/Kg	1	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	520	300	ug/Kg	1	05/11/23	KCA	SW8270D
Fluoranthene	4200	300	ug/Kg	1	05/11/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1900	300	ug/Kg	1	05/11/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/11/23	KCA	SW8270D
Phenanthrene	1800	300	ug/Kg	1	05/11/23	KCA	SW8270D
Pyrene	3600	300	ug/Kg	1	05/11/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	81		%	1	05/11/23	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/11/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

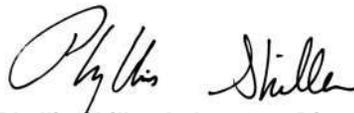
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/03/23
 05/04/23

Time

8:10
 11:21

Laboratory Data

SDG ID: GCN97567
 Phoenix ID: CN97570

Project ID: BRAINARD AIRPORT
 Client ID: B-132 (0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/03/23		SW5035A
Extraction of ETPH	Completed				05/09/23	B/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/10/23	B/MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	05/10/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/10/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	87		%	5	05/10/23	JRB	50 - 150 %
% Terphenyl (surr)	81		%	5	05/10/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.45	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
2-Chlorotoluene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
2-Hexanone	ND	23	ug/Kg	1	05/06/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
4-Chlorotoluene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/06/23	JLI	SW8260C
Acetone	ND	230	ug/Kg	1	05/06/23	JLI	SW8260C
Acrylonitrile	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Benzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Bromobenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Bromochloromethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Bromodichloromethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Bromoform	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Bromomethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Carbon Disulfide	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Carbon tetrachloride	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Chlorobenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Chloroethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Chloroform	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Chloromethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Dibromochloromethane	ND	2.7	ug/Kg	1	05/06/23	JLI	SW8260C
Dibromomethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Ethylbenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Isopropylbenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
m&p-Xylene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	27	ug/Kg	1	05/06/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.1	ug/Kg	1	05/06/23	JLI	SW8260C
Methylene chloride	ND	9.1	ug/Kg	1	05/06/23	JLI	SW8260C
Naphthalene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
n-Butylbenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
n-Propylbenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
o-Xylene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
sec-Butylbenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Styrene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
tert-Butylbenzene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Tetrachloroethene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.1	ug/Kg	1	05/06/23	JLI	SW8260C
Toluene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.1	ug/Kg	1	05/06/23	JLI	SW8260C
Trichloroethene	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.1	ug/Kg	1	05/06/23	JLI	SW8260C
Vinyl chloride	ND	4.5	ug/Kg	1	05/06/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	92		%	1	05/06/23	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/06/23	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	05/06/23	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/06/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/11/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/11/23	KCA	SW8270D
Benz(a)anthracene	1400	270	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(a)pyrene	2000	270	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	3200	270	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	1600	270	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	1000	270	ug/Kg	1	05/11/23	KCA	SW8270D
Chrysene	2300	270	ug/Kg	1	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	380	270	ug/Kg	1	05/11/23	KCA	SW8270D
Fluoranthene	3500	270	ug/Kg	1	05/11/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1600	270	ug/Kg	1	05/11/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/11/23	KCA	SW8270D
Phenanthrene	1200	270	ug/Kg	1	05/11/23	KCA	SW8270D
Pyrene	2700	270	ug/Kg	1	05/11/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	47		%	1	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	49		%	1	05/11/23	KCA	30 - 130 %
% Terphenyl-d14	45		%	1	05/11/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

05/03/23
05/04/23

Time

9:40
11:21

Laboratory Data

SDG ID: GCN97567
Phoenix ID: CN97571

Project ID: BRAINARD AIRPORT
Client ID: HA-36 (0-0.5)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Lead, Percent Solid, Soil Extraction for PCB, Soil Extraction for Pesticide, Total Metals Digest.

Polychlorinated Biphenyls

Table with 8 columns: PCB ID, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Lists PCB-1016 through PCB-1268.

QA/QC Surrogates

Table with 8 columns: Surrogate Name, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Lists % DCBP and % TCMX.

Pesticides

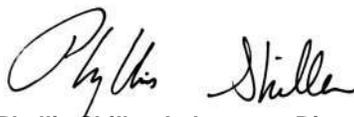
Table with 8 columns: Pesticide Name, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Lists 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, a-BHC.

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	05/11/23	AW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	05/11/23	AW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	05/11/23	AW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Endrin	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	05/11/23	AW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	05/11/23	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	05/11/23	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	05/11/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	79		%	2	05/11/23	AW	30 - 150 %
% DCBP (Confirmation)	87		%	2	05/11/23	AW	30 - 150 %
% TCMX	71		%	2	05/11/23	AW	30 - 150 %
% TCMX (Confirmation)	83		%	2	05/11/23	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn:James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date: 05/03/23
Time: 05/04/23 11:21

Laboratory Data

SDG ID: GCN97567
Phoenix ID: CN97663

Project ID: BRAINARD AIRPORT
Client ID: TB LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/03/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/06/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/06/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/06/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/06/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/06/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/06/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	05/06/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98		%	1	05/06/23	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	05/06/23	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/06/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn:James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/03/23
05/04/23

Time

11:21

Laboratory Data

SDG ID: GCN97567
Phoenix ID: CN97664

Project ID: BRAINARD AIRPORT
Client ID: TB HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/03/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/06/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/06/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/06/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/06/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/06/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/06/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/06/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/06/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/06/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/06/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/06/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/06/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/06/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/06/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/06/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/06/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/06/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	96		%	50	05/06/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	99		%	50	05/06/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	05/06/23	JLI	70 - 130 %
% Toluene-d8 (50x)	95		%	50	05/06/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 15, 2023

QA/QC Data

SDG I.D.: GCN97567

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 676378 (mg/kg), QC Sample No: CN93001 (CN97571)													
<u>ICP Metals - Soil</u>													
Lead	BRL	0.33	55.5	51.2	8.10	109	100	8.6	115			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													



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 Tel. (860) 645-1102

QA/QC Report

May 15, 2023

QA/QC Data

SDG I.D.: GCN97567

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 676717 (mg/Kg), QC Sample No: CN97749 (CN97570)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	100	104	3.9	105	96	9.0	60 - 120	30
% COD (surr)	89	%	103	99	4.0	105	115	9.1	50 - 150	30
% Terphenyl (surr)	86	%	90	88	2.2	89	91	2.2	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 677308 (mg/Kg), QC Sample No: CO03486 (CN97567, CN97568, CN97569)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	91	77	16.7	58	62	6.7	60 - 120	30
% COD (surr)	75	%	114	104	9.2	85	99	15.2	50 - 150	30
% Terphenyl (surr)	78	%	83	70	17.0	102	90	12.5	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 676855 (ug/Kg), QC Sample No: CN99857 2X (CN97571)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	98	92	6.3	75	89	17.1	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	101	100	1.0	79	93	16.3	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	91	%	106	103	2.9	79	95	18.4	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	70	%	85	88	3.5	72	81	11.8	30 - 150	30
% TCMX (Surrogate Rec)	58	%	77	75	2.6	63	73	14.7	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	82	%	95	92	3.2	76	85	11.2	30 - 150	30

QA/QC Batch 676899 (ug/Kg), QC Sample No: CO01062 2X (CN97567)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	95	88	7.7	87	76	13.5	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	102	92	10.3	86	79	8.5	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30

QA/QC Data

SDG I.D.: GCN97567

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% DCBP (Surrogate Rec)	85	%	101	93	8.2	89	80	10.7	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	68	%	86	81	6.0	77	69	11.0	30 - 150	30
% TCMX (Surrogate Rec)	54	%	78	73	6.6	75	70	6.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	68	%	92	84	9.1	84	76	10.0	30 - 150	30

QA/QC Batch 676858 (ug/Kg), QC Sample No: CN99857 2X (CN97571)

Pesticides - Soil

4,4' -DDD	ND	1.7	101	112	10.3	121	102	17.0	40 - 140	30
4,4' -DDE	ND	1.7	101	113	11.2	117	100	15.7	40 - 140	30
4,4' -DDT	ND	1.7	101	110	8.5	116	99	15.8	40 - 140	30
a-BHC	ND	1.0	85	93	9.0	97	82	16.8	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	101	112	10.3	109	96	12.7	40 - 140	30
b-BHC	ND	1.0	89	98	9.6	95	84	12.3	40 - 140	30
Chlordane	ND	33	101	112	10.3	117	102	13.7	40 - 140	30
d-BHC	ND	3.3	36	36	0.0	46	39	16.5	40 - 140	30
Dieldrin	ND	1.0	106	118	10.7	120	102	16.2	40 - 140	30
Endosulfan I	ND	3.3	97	103	6.0	117	102	13.7	40 - 140	30
Endosulfan II	ND	3.3	102	109	6.6	126	108	15.4	40 - 140	30
Endosulfan sulfate	ND	3.3	89	98	9.6	98	85	14.2	40 - 140	30
Endrin	ND	3.3	102	114	11.1	115	96	18.0	40 - 140	30
Endrin aldehyde	ND	3.3	89	99	10.6	91	79	14.1	40 - 140	30
Endrin ketone	ND	3.3	102	111	8.5	114	97	16.1	40 - 140	30
g-BHC	ND	1.0	88	95	7.7	102	89	13.6	40 - 140	30
Heptachlor	ND	3.3	95	104	9.0	104	92	12.2	40 - 140	30
Heptachlor epoxide	ND	3.3	103	114	10.1	114	100	13.1	40 - 140	30
Methoxychlor	ND	3.3	95	104	9.0	108	93	14.9	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	81	%	81	87	7.1	91	81	11.6	30 - 150	30
% DCBP (Confirmation)	79	%	78	85	8.6	90	80	11.8	30 - 150	30
% TCMX	76	%	80	88	9.5	88	79	10.8	30 - 150	30
% TCMX (Confirmation)	84	%	85	97	13.2	96	86	11.0	30 - 150	30

QA/QC Batch 676948 (ug/kg), QC Sample No: CO01257 (CN97569, CN97570)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	75	73	2.7	58	55	5.3	40 - 140	30
Acenaphthene	ND	230	75	76	1.3	58	54	7.1	30 - 130	30
Acenaphthylene	ND	230	71	71	0.0	55	52	5.6	40 - 140	30
Anthracene	ND	230	76	78	2.6	61	56	8.5	40 - 140	30
Benz(a)anthracene	ND	230	71	75	5.5	56	52	7.4	40 - 140	30
Benzo(a)pyrene	ND	230	90	92	2.2	67	61	9.4	40 - 140	30
Benzo(b)fluoranthene	ND	230	91	97	6.4	61	56	8.5	40 - 140	30
Benzo(ghi)perylene	ND	230	108	118	8.8	76	67	12.6	40 - 140	30
Benzo(k)fluoranthene	ND	230	80	89	10.7	57	51	11.1	40 - 140	30
Chrysene	ND	230	75	80	6.5	61	55	10.3	40 - 140	30
Dibenz(a,h)anthracene	ND	230	105	115	9.1	74	65	12.9	40 - 140	30
Fluoranthene	ND	230	77	77	0.0	61	56	8.5	40 - 140	30
Fluorene	ND	230	82	84	2.4	64	60	6.5	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	109	118	7.9	75	67	11.3	40 - 140	30
Naphthalene	ND	230	86	85	1.2	65	60	8.0	40 - 140	30
Phenanthrene	ND	230	77	82	6.3	63	56	11.8	40 - 140	30
Pyrene	ND	230	76	75	1.3	59	56	5.2	30 - 130	30
% 2-Fluorobiphenyl	67	%	67	67	0.0	52	50	3.9	30 - 130	30
% Nitrobenzene-d5	67	%	70	68	2.9	54	52	3.8	30 - 130	30

QA/QC Data

SDG I.D.: GCN97567

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Terphenyl-d14	63	%	72	71	1.4	57	51	11.1	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676594 (ug/kg), QC Sample No: CN99082 (CN97569, CN97570, CN97663)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	124	119	4.1	88	91	3.4	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	115	109	5.4	83	88	5.8	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	108	105	2.8	81	80	1.2	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	105	104	1.0	83	81	2.4	70 - 130	30
1,1-Dichloroethane	ND	5.0	108	99	8.7	96	96	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	113	104	8.3	81	82	1.2	70 - 130	30
1,1-Dichloropropene	ND	5.0	110	106	3.7	81	85	4.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	116	110	5.3	57	59	3.4	70 - 130	30 m
1,2,3-Trichloropropane	ND	5.0	101	99	2.0	83	83	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	113	111	1.8	58	61	5.0	70 - 130	30 m
1,2,4-Trimethylbenzene	ND	1.0	111	105	5.6	71	75	5.5	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	116	114	1.7	75	76	1.3	70 - 130	30
1,2-Dibromoethane	ND	5.0	110	106	3.7	84	84	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	108	104	3.8	70	72	2.8	70 - 130	30
1,2-Dichloroethane	ND	5.0	106	103	2.9	85	87	2.3	70 - 130	30
1,2-Dichloropropane	ND	5.0	108	105	2.8	84	86	2.4	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	111	105	5.6	73	79	7.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	112	106	5.5	72	75	4.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	105	103	1.9	86	86	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	111	105	5.6	71	74	4.1	70 - 130	30
2,2-Dichloropropane	ND	5.0	120	116	3.4	81	86	6.0	70 - 130	30
2-Chlorotoluene	ND	5.0	114	108	5.4	76	79	3.9	70 - 130	30
2-Hexanone	ND	25	101	101	0.0	76	74	2.7	70 - 130	30
2-Isopropyltoluene	ND	5.0	112	105	6.5	71	77	8.1	70 - 130	30
4-Chlorotoluene	ND	5.0	112	107	4.6	75	79	5.2	70 - 130	30
4-Methyl-2-pentanone	ND	25	101	103	2.0	79	78	1.3	70 - 130	30
Acetone	ND	10	94	90	4.3	72	73	1.4	70 - 130	30
Acrylonitrile	ND	5.0	101	98	3.0	81	81	0.0	70 - 130	30
Benzene	ND	1.0	107	105	1.9	84	86	2.4	70 - 130	30
Bromobenzene	ND	5.0	115	110	4.4	79	82	3.7	70 - 130	30
Bromochloromethane	ND	5.0	104	103	1.0	85	85	0.0	70 - 130	30
Bromodichloromethane	ND	5.0	111	110	0.9	84	88	4.7	70 - 130	30
Bromoform	ND	5.0	119	119	0.0	83	85	2.4	70 - 130	30
Bromomethane	ND	5.0	104	99	4.9	86	84	2.4	70 - 130	30
Carbon Disulfide	ND	5.0	107	96	10.8	72	72	0.0	70 - 130	30
Carbon tetrachloride	ND	5.0	117	111	5.3	79	86	8.5	70 - 130	30
Chlorobenzene	ND	5.0	108	102	5.7	79	82	3.7	70 - 130	30
Chloroethane	ND	5.0	119	105	12.5	82	86	4.8	70 - 130	30
Chloroform	ND	5.0	106	102	3.8	85	88	3.5	70 - 130	30
Chloromethane	ND	5.0	105	98	6.9	76	77	1.3	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	103	102	1.0	87	84	3.5	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	117	116	0.9	84	89	5.8	70 - 130	30
Dibromochloromethane	ND	3.0	116	114	1.7	84	86	2.4	70 - 130	30
Dibromomethane	ND	5.0	108	106	1.9	83	84	1.2	70 - 130	30
Dichlorodifluoromethane	ND	5.0	107	97	9.8	64	66	3.1	70 - 130	30 m
Ethylbenzene	ND	1.0	110	104	5.6	78	81	3.8	70 - 130	30

QA/QC Data

SDG I.D.: GCN97567

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Hexachlorobutadiene	ND	5.0	114	106	7.3	48	55	13.6	70 - 130	30	m
Isopropylbenzene	ND	1.0	114	106	7.3	74	80	7.8	70 - 130	30	
m&p-Xylene	ND	2.0	109	104	4.7	77	81	5.1	70 - 130	30	
Methyl ethyl ketone	ND	5.0	95	98	3.1	77	75	2.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	108	104	3.8	83	84	1.2	70 - 130	30	
Methylene chloride	ND	5.0	108	101	6.7	79	79	0.0	70 - 130	30	
Naphthalene	ND	5.0	114	112	1.8	49	45	8.5	70 - 130	30	m
n-Butylbenzene	ND	1.0	119	111	7.0	65	72	10.2	70 - 130	30	m
n-Propylbenzene	ND	1.0	114	107	6.3	74	80	7.8	70 - 130	30	
o-Xylene	ND	2.0	111	106	4.6	78	81	3.8	70 - 130	30	
p-Isopropyltoluene	ND	1.0	115	109	5.4	70	76	8.2	70 - 130	30	
sec-Butylbenzene	ND	1.0	115	107	7.2	70	76	8.2	70 - 130	30	
Styrene	ND	5.0	102	97	5.0	73	75	2.7	70 - 130	30	
tert-Butylbenzene	ND	1.0	113	107	5.5	74	79	6.5	70 - 130	30	
Tetrachloroethene	ND	5.0	111	109	1.8	74	79	6.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	97	96	1.0	79	77	2.6	70 - 130	30	
Toluene	ND	1.0	109	106	2.8	80	82	2.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	112	104	7.4	80	83	3.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	122	121	0.8	88	92	4.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	106	104	1.9	73	74	1.4	70 - 130	30	
Trichloroethene	ND	5.0	108	104	3.8	82	84	2.4	70 - 130	30	
Trichlorofluoromethane	ND	5.0	117	108	8.0	82	85	3.6	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	107	98	8.8	70	75	6.9	70 - 130	30	
Vinyl chloride	ND	5.0	111	104	6.5	84	85	1.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	103	103	0.0	102	102	0.0	70 - 130	30	
% Bromofluorobenzene	101	%	101	100	1.0	99	101	2.0	70 - 130	30	
% Dibromofluoromethane	98	%	98	99	1.0	96	97	1.0	70 - 130	30	
% Toluene-d8	95	%	99	100	1.0	98	98	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 676594H (ug/kg), QC Sample No: CN99082 50X (CN97664 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	120	116	3.4	86	91	5.6	70 - 130	30	
1,1,1-Trichloroethane	ND	250	114	108	5.4	91	95	4.3	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	115	112	2.6	93	93	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	250	112	110	1.8	93	92	1.1	70 - 130	30	
1,1-Dichloroethane	ND	250	105	103	1.9	107	102	4.8	70 - 130	30	
1,1-Dichloroethene	ND	250	103	94	9.1	89	91	2.2	70 - 130	30	
1,1-Dichloropropene	ND	250	119	117	1.7	104	104	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	125	125	0.0	91	98	7.4	70 - 130	30	
1,2,3-Trichloropropane	ND	250	106	106	0.0	92	93	1.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	125	122	2.4	94	99	5.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	116	114	1.7	98	100	2.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	122	120	1.7	81	87	7.1	70 - 130	30	
1,2-Dibromoethane	ND	250	115	115	0.0	90	92	2.2	70 - 130	30	
1,2-Dichlorobenzene	ND	250	115	112	2.6	96	97	1.0	70 - 130	30	
1,2-Dichloroethane	ND	250	110	107	2.8	98	95	3.1	70 - 130	30	
1,2-Dichloropropane	ND	250	116	114	1.7	93	97	4.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	115	114	0.9	98	100	2.0	70 - 130	30	
1,3-Dichlorobenzene	ND	250	118	116	1.7	98	99	1.0	70 - 130	30	
1,3-Dichloropropane	ND	250	112	112	0.0	93	95	2.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCN97567

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	250	117	115	1.7	97	97	0.0	70 - 130	30	
2,2-Dichloropropane	ND	250	122	123	0.8	71	84	16.8	70 - 130	30	
2-Chlorotoluene	ND	250	120	119	0.8	99	101	2.0	70 - 130	30	
2-Hexanone	ND	1300	108	107	0.9	87	89	2.3	70 - 130	30	
2-Isopropyltoluene	ND	250	117	116	0.9	100	101	1.0	70 - 130	30	
4-Chlorotoluene	ND	250	118	117	0.9	99	100	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	113	107	5.5	93	93	0.0	70 - 130	30	
Acetone	ND	500	85	79	7.3	81	79	2.5	70 - 130	30	
Acrylonitrile	ND	250	107	102	4.8	102	97	5.0	70 - 130	30	
Benzene	ND	250	114	111	2.7	98	98	0.0	70 - 130	30	
Bromobenzene	ND	250	121	120	0.8	97	99	2.0	70 - 130	30	
Bromochloromethane	ND	250	112	106	5.5	96	93	3.2	70 - 130	30	
Bromodichloromethane	ND	250	113	107	5.5	86	89	3.4	70 - 130	30	
Bromoform	ND	250	114	106	7.3	80	82	2.5	70 - 130	30	
Bromomethane	ND	250	68	66	3.0	66	60	9.5	70 - 130	30	l,m
Carbon Disulfide	ND	250	98	89	9.6	82	84	2.4	70 - 130	30	
Carbon tetrachloride	ND	250	107	100	6.8	70	79	12.1	70 - 130	30	
Chlorobenzene	ND	250	113	110	2.7	97	97	0.0	70 - 130	30	
Chloroethane	ND	250	23	21	9.1	21	20	4.9	70 - 130	30	l,m
Chloroform	ND	250	109	105	3.7	97	94	3.1	70 - 130	30	
Chloromethane	ND	250	113	105	7.3	95	92	3.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	112	105	6.5	96	95	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	123	117	5.0	86	92	6.7	70 - 130	30	
Dibromochloromethane	ND	150	114	109	4.5	81	85	4.8	70 - 130	30	
Dibromomethane	ND	250	115	113	1.8	95	95	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	250	105	98	6.9	85	83	2.4	70 - 130	30	
Ethylbenzene	ND	250	114	112	1.8	99	101	2.0	70 - 130	30	
Hexachlorobutadiene	ND	250	123	117	5.0	98	102	4.0	70 - 130	30	
Isopropylbenzene	ND	250	119	117	1.7	98	101	3.0	70 - 130	30	
m&p-Xylene	ND	250	114	111	2.7	101	100	1.0	70 - 130	30	
Methyl ethyl ketone	ND	250	105	101	3.9	92	92	0.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	110	108	1.8	92	90	2.2	70 - 130	30	
Methylene chloride	ND	250	102	103	1.0	92	89	3.3	70 - 130	30	
Naphthalene	ND	250	124	125	0.8	92	98	6.3	70 - 130	30	
n-Butylbenzene	ND	250	125	122	2.4	106	109	2.8	70 - 130	30	
n-Propylbenzene	ND	250	119	118	0.8	101	103	2.0	70 - 130	30	
o-Xylene	ND	250	115	114	0.9	98	98	0.0	70 - 130	30	
p-Isopropyltoluene	ND	250	122	119	2.5	104	105	1.0	70 - 130	30	
sec-Butylbenzene	ND	250	119	117	1.7	103	103	0.0	70 - 130	30	
Styrene	ND	250	107	103	3.8	93	92	1.1	70 - 130	30	
tert-Butylbenzene	ND	250	118	117	0.9	101	102	1.0	70 - 130	30	
Tetrachloroethene	ND	250	122	119	2.5	101	104	2.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	105	100	4.9	92	90	2.2	70 - 130	30	
Toluene	ND	250	116	113	2.6	100	100	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	110	106	3.7	97	95	2.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	128	124	3.2	84	92	9.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	108	105	2.8	68	75	9.8	70 - 130	30	m
Trichloroethene	ND	250	112	110	1.8	98	100	2.0	70 - 130	30	
Trichlorofluoromethane	ND	250	20	19	5.1	19	18	5.4	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	98	91	7.4	89	87	2.3	70 - 130	30	
Vinyl chloride	ND	250	114	108	5.4	102	98	4.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	101	102	1.0	102	101	1.0	70 - 130	30	
% Bromofluorobenzene	100	%	100	100	0.0	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN97567

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Dibromofluoromethane	97	%	99	95	4.1	99	96	3.1	70 - 130	30
% Toluene-d8	95	%	101	100	1.0	101	100	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


Phyllis Shiller, Laboratory Director
May 15, 2023

Monday, May 15, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN97567 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN97569	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	3000	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1900	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3000	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4200	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2400	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1900	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1800	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3000	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2400	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3000	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4200	300	1000	1000	ug/Kg
CN97569	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1300	300	1000	1000	ug/Kg
CN97570	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2000	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1600	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1400	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2000	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3200	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1600	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	2300	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1600	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2000	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3200	270	1000	1000	ug/Kg
CN97570	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1400	270	1000	1000	ug/Kg
CN97664	\$8260MER	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	25	7	7	ug/Kg
CN97664	\$8260MER	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	50	40	40	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CN97567-CN97571,
CN97663, CN97664

Sampling Date(s): 5/3/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8081, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the YPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: PEST Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Monday, May 15, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 15, 2023

SDG I.D.: GCN97567

SDG Comments

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 05/10/23-1 Jeff Bucko, Chemist 05/10/23

CN97570 (5X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (510A005_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 05/12/23-1 Jeff Bucko, Chemist 05/12/23

CN97567 (1X), CN97568 (1X), CN97569 (1X)

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (512A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 676717 (CN97749)

CN97570

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 677308 (CO03486)

CN97567, CN97568, CN97569

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:



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Certification Report

May 15, 2023

SDG I.D.: GCN97567

ICP Metals Narration

ARCOS-2 05/08/23 11:42 Cindy Pearce, Chemist 05/08/23

CN97571

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 676378 (CN93001)

CN97571

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD7 05/10/23-1 Saadia Chudary, Chemist 05/10/23

CN97567 (10X)

The initial calibration (PC0509AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0509BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD8 05/11/23-1 Saadia Chudary, Chemist 05/11/23

CN97571 (10X)

The initial calibration (PC0421AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0421BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 676855 (CN99857)

CN97571

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 676899 (CO01062)

CN97567

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.



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RCP Certification Report

May 15, 2023

SDG I.D.: GCN97567

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676858 (Samples: CN97571): -----

The LCS/LCSD recovery of one analyte is below the method criteria. A low bias for this analyte is possible. (d-BHC)

Instrument:

AU-ECD35 05/11/23-1

Adam Werner, Chemist 05/11/23

CN97571 (2X)

The initial calibration (PS0407AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0407BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CN97571

Preceding CC 511B010 - None.

Succeeding CC 511B023 - % DCBP -25%L (20%), d-BHC -27%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

QC (Batch Specific):

Batch 676858 (CN99857)

CN97571

All LCS recoveries were within 40 - 140 with the following exceptions: d-BHC(36%)

All LCSD recoveries were within 40 - 140 with the following exceptions: d-BHC(36%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM19 05/10/23-1

Matt Richard, Chemist 05/10/23

CN97569 (1X), CN97570 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0510_03-19_BN_0419):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 15, 2023

SDG I.D.: GCN97567

SVOA Narration

The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 676948 (CO01257)

CN97569, CN97570

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676594H: ----

The QC recoveries for analyte is below the lower range. A low bias is possible. (Bromomethane)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM14 05/06/23-1

Jane Li, Chemist 05/06/23

CN97569 (1X), CN97570 (1X), CN97663 (1X), CN97664 (50X)

Initial Calibration Evaluation (CHEM14/VT050523):

93% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 34% (20%), Acetone 22% (20%), Bromoform 24% (20%), Carbon tetrachloride 21% (20%), Chloroethane 24% (20%), trans-1,3-Dichloropropene 26% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.098 (0.1), Bromoform 0.099 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0506_02-VT050523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 676594 (CN99082)

CHEM14 5/6/2023-1

CN97569(1X), CN97570(1X), CN97663(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.



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RCP Certification Report

May 15, 2023

SDG I.D.: GCN97567

VOA Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676594H (CN99082) CHEM14 5/6/2023-1

CN97664(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(68%), Chloroethane(23%), Trichlorofluoromethane(20%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(66%), Chloroethane(21%), Trichlorofluoromethane(19%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.2C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Coolant: IPK ICE Yes No
 Temp 1.2 °C Pg 1 of 1

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/3/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

Analysis Request					CT/ETPH (DPH METHOD)	VOCs (EPA 8260/5095)	1,4 Dioxane	SVOCs	PAHs (EPA 8270)	Total PCRA 8 Metals	Total RSR 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8) oz	GL Soil container (8) oz	40 ml VOA Vial [1] As is [1] HCl	PL As is [1] 250ml [1] 500ml [1] 1000ml	PL H2SO4 [1] 250ml [1] 500ml [1] 1000ml	PL HNO3 250ml	Bacteria Bottle white	Bacteria Bottle as is	Hold
PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled																					
97567	HA-16(0-0.5)	S	5/3/23	0735	X							X													
97568	HA-20(0-0.5)	S	5/3/23	0736	X							X													
97569	HA-22(0-0.5)	S	5/3/23	0740	X	X		X						3											
97570	B-132(0-2')	S	5/3/23	0810	X	X		X						3											
97571	HA-36(0-0.5)	S	5/3/23	0940						X		X	X												
														2											
														1											
97663	TB LL																								
97664	TB HL																								

Relinquished by: [Signature]
 Accepted by: [Signature]
 Date: 5/3/23 Time: 1530

Date: 5/4/23 Time: 1038
 Date: 5/4/23 Time: 1038

Comments, Special Requirements or Regulations:
[Signature]
5/4/23 11:25

RI
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GA Leachability
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

* SURCHARGE APPLIES

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

State where samples were collected: CT

* SURCHARGE APPLIES

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Friday, May 05, 2023 9:14 AM
To: Sarah Bell
Cc: Casey Watts
Subject: FW: Phoenix Labs - GCN97567, BRAINARD AIRPORT - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Hi Sarah,
Just a quick modification on the COC associated with these samples:

- Analyze CN97568 / HA-20 (0-0.5') for just ETPH (no PCB analysis)

Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



o. 203.712.1106 | m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com



From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Thursday, May 4, 2023 11:14 PM
To: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: Phoenix Labs - GCN97567, BRAINARD AIRPORT - COC Acknowledgement

[Caution - External Sender]

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 12-5182-001

Samples Will Be Disposed After: 30 Days

GCN97567 Criteria:

SOIL(7): CT GBM (GB Mobility), CT I/C (I/C Dec), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed.

Delivery group GCN97567 (BRAINARD AIRPORT) has been logged in for the following samples:

Phoenix Id	Client Id
CN97567	HA-16 (0-0.5)
CN97568	HA-20 (0-0.5)
CN97569	HA-22 (0-0.5)
CN97570	B-132 (0-2)
CN97571	HA-36 (0-0.5)
CN97663	TB LL
CN97664	TB HL

This SDG has been logged in for Standard 7 business day turn-around time.

The samples were received at 1.2C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.

cc:dJTolsen@tighebond.com; jllibby@tighebond.com; cwatts@tighebond.com; MPaulsson@TigheBond.com; jjackson@tighebond.com



Monday, May 15, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCN97920
Sample ID#s: CN97920 - CN97940

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 15, 2023

SDG I.D.: GCN97920

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-30 (13-15)	CN97920	SOIL
DUP-4	CN97921	SOIL
B-31 (12-14)	CN97922	SOIL
B-34 (10-12)	CN97923	SOIL
B-42 (8-10)	CN97924	SOIL
B-44 (3-5)	CN97925	SOIL
DUP-5	CN97926	SOIL
B-44 (10-12)	CN97927	SOIL
B-45 (6-8)	CN97928	SOIL
TB050422L	CN97929	SOIL
TB050422H	CN97930	SOIL
B-49 (10-12)	CN97931	SOIL
B-50 (10-12)	CN97932	SOIL
B-51 (10-12)	CN97933	SOIL
B-52 (8-10)	CN97934	SOIL
B-53 (10-12)	CN97935	SOIL
B-54 (10-12)	CN97936	SOIL
B-55 (10-12)	CN97937	SOIL
B-56 (10-12)	CN97938	SOIL
B-84 (0-2)	CN97939	SOIL
B-107 (0.5-2.5)	CN97940	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

8:15
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97920

Project ID: BRAINARD AIRPORT
 Client ID: B-30 (13-15)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2.55	0.37	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	80		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/09/23	C/MO	SW3546
Soil Extraction for SVOA PAH	Completed				05/10/23	MO/C/M	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	119		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	97		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	97		%	1	05/08/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	68		%	1	05/11/23	HM	30 - 130 %
% Nitrobenzene-d5	87		%	1	05/11/23	HM	30 - 130 %
% Terphenyl-d14	82		%	1	05/11/23	HM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

8:16
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97921

Project ID: BRAINARD AIRPORT
 Client ID: DUP-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.13	0.37	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	80		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/09/23	C/MO	SW3546
Soil Extraction for SVOA PAH	Completed				05/10/23	MO/C/M	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	79		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	68		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/08/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/11/23	HM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	61		%	1	05/11/23	HM	30 - 130 %
% Nitrobenzene-d5	76		%	1	05/11/23	HM	30 - 130 %
% Terphenyl-d14	75		%	1	05/11/23	HM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

7:55
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97922

Project ID: BRAINARD AIRPORT
 Client ID: B-31 (12-14)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	70		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/09/23	C/MO	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	58		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	55		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.61	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/09/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/09/23	JLI	SW8260C
Acrylonitrile	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Benzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Bromobenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Bromoform	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Bromomethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroform	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Chloromethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromomethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Naphthalene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
o-Xylene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Styrene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Toluene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Total Xylenes	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Trichloroethene	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/Kg	1	05/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/09/23	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/09/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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May 15, 2023

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Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

8:35
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97923

Project ID: BRAINARD AIRPORT
 Client ID: B-34 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.60	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	77		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	MO/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/10/23	MO/C/M	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	65		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	58		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.80	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	40	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	40	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	400	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	4.8	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	48	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	8.0	ug/Kg	1	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/08/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/11/23	HM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	60		%	1	05/11/23	HM	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/11/23	HM	30 - 130 %
% Terphenyl-d14	72		%	1	05/11/23	HM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/04/23
05/04/23

Time

13:20
15:35

Laboratory Data

SDG ID: GCN97920
Phoenix ID: CN97924

Project ID: BRAINARD AIRPORT
Client ID: B-42 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.27	0.45	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	76		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	61		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	56		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.61	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	3.7	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	37	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/Kg	1	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/08/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	81		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	81		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	78		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

11:50
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97925

Project ID: BRAINARD AIRPORT
 Client ID: B-44 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	1	05/11/23	TH	SW6010D
Arsenic	2.65	0.86	mg/Kg	1	05/11/23	TH	SW6010D
Barium	53.1	0.43	mg/Kg	1	05/11/23	TH	SW6010D
Beryllium	< 0.34	0.34	mg/Kg	1	05/11/23	TH	SW6010D
Cadmium	< 0.43	0.43	mg/Kg	1	05/11/23	TH	SW6010D
Chromium	21.3	0.43	mg/Kg	1	05/11/23	TH	SW6010D
Copper	16.4	0.9	mg/kg	1	05/11/23	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/05/23	PM	SW7471B
Nickel	20.9	0.43	mg/Kg	1	05/11/23	TH	SW6010D
Lead	8.52	0.43	mg/Kg	1	05/11/23	TH	SW6010D
Antimony	< 4.3	4.3	mg/Kg	1	05/11/23	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	05/11/23	TH	SW6010D
Thallium	< 3.9	3.9	mg/Kg	1	05/11/23	TH	SW6010D
Vanadium	25.8	0.43	mg/Kg	1	05/11/23	TH	SW6010D
Zinc	50.1	0.9	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	81		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Mercury Digestion	Completed				05/05/23	Z/Z	SW7471B
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for PCB	Completed				05/09/23	P/M	SW3546
Soil Extraction for SVOA	Completed				05/10/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	7500	600	mg/Kg	10	05/12/23	JRB	CTETPH
Identification	**		mg/Kg	10	05/12/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	Diluted Out		%	10	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	Diluted Out		%	10	05/12/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	400	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	05/10/23	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	05/10/23	SC	SW8082A

QA/QC Surrogates

% DCBP	95		%	10	05/10/23	SC	30 - 150 %
% DCBP (Confirmation)	107		%	10	05/10/23	SC	30 - 150 %
% TCMX	82		%	10	05/10/23	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	05/10/23	SC	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	1000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	62000	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dibromoethane	ND	710	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	3100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	710	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dichloropropane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	23000	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
2-Hexanone	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	14000	ug/Kg	1000	05/09/23	JLI	SW8260C
Acetone	ND	140000	ug/Kg	1000	05/09/23	JLI	SW8260C
Acrylonitrile	ND	710	ug/Kg	1000	05/09/23	JLI	SW8260C
Benzene	ND	710	ug/Kg	1000	05/09/23	JLI	SW8260C
Bromobenzene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Bromoform	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Bromomethane	ND	2900	ug/Kg	1000	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Chlorobenzene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Chloroethane	ND	1500	ug/Kg	1000	05/09/23	JLI	SW8260C
Chloroform	ND	1200	ug/Kg	1000	05/09/23	JLI	SW8260C
Chloromethane	ND	3600	ug/Kg	1000	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Dibromomethane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Ethylbenzene	5900	5700	ug/Kg	1000	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	1500	ug/Kg	1000	05/09/23	JLI	SW8260C
Isopropylbenzene	4400	4300	ug/Kg	1000	05/09/23	JLI	SW8260C
m&p-Xylene	14000	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	43000	ug/Kg	1000	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14000	ug/Kg	1000	05/09/23	JLI	SW8260C
Methylene chloride	ND	2900	ug/Kg	1000	05/09/23	JLI	SW8260C
Naphthalene	42000	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
n-Butylbenzene	14000	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
n-Propylbenzene	11000	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
o-Xylene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
p-Isopropyltoluene	8300	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
sec-Butylbenzene	11000	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Styrene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	3600	ug/Kg	1000	05/09/23	JLI	SW8260C
Toluene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Total Xylenes	14000	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14000	ug/Kg	1000	05/09/23	JLI	SW8260C
Trichloroethene	ND	1000	ug/Kg	1000	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	7100	ug/Kg	1000	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	14000	ug/Kg	1000	05/09/23	JLI	SW8260C
Vinyl chloride	ND	710	ug/Kg	1000	05/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (1000x)	96		%	1000	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene (1000x)	106		%	1000	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane (1000x)	106		%	1000	05/09/23	JLI	70 - 130 %
% Toluene-d8 (1000x)	93		%	1000	05/09/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	770	ug/Kg	5	05/11/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
2,4-Dichlorophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,4-Dimethylphenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,4-Dinitrophenol	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	900	ug/Kg	5	05/11/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	900	ug/Kg	5	05/11/23	KCA	SW8270D
2-Chloronaphthalene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2-Chlorophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2-Methylnaphthalene	44000	7000	ug/Kg	25	05/11/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2-Nitroaniline	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
2-Nitrophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
3-Nitroaniline	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
4-Chloroaniline	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
4-Nitroaniline	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
4-Nitrophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Acenaphthene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Acenaphthylene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Acetophenone	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Aniline	ND	1200	ug/Kg	5	05/11/23	KCA	SW8270D
Anthracene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Benz(a)anthracene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzidine	ND	800	ug/Kg	5	05/11/23	KCA	SW8270D
Benzo(a)pyrene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzoic acid	ND	4000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzyl butyl phthalate	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
Carbazole	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Chrysene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Dibenzofuran	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Diethyl phthalate	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Di-n-butylphthalate	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
Di-n-octylphthalate	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Fluoranthene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Fluorene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Hexachlorobenzene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Hexachlorobutadiene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Hexachloroethane	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Isophorone	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Naphthalene	17000	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Nitrobenzene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	400	ug/Kg	5	05/11/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	400	ug/Kg	5	05/11/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Pentachloronitrobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Pentachlorophenol	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Phenanthrene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Phenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Pyrene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Pyridine	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol (5x)	60		%	5	05/11/23	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	56		%	5	05/11/23	KCA	30 - 130 %
% 2-Fluorophenol (5x)	53		%	5	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	116		%	5	05/11/23	KCA	30 - 130 %
% Phenol-d5 (5x)	58		%	5	05/11/23	KCA	30 - 130 %
% Terphenyl-d14 (5x)	60		%	5	05/11/23	KCA	30 - 130 %
% 2,4,6-Tribromophenol (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% 2-Fluorobiphenyl (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% 2-Fluorophenol (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5 (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% Phenol-d5 (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% Terphenyl-d14 (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Semi-Volatile Comment:

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C20. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

11:51
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97926

Project ID: BRAINARD AIRPORT
 Client ID: DUP-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Arsenic	2.73	0.79	mg/Kg	1	05/11/23	TH	SW6010D
Barium	54.4	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Beryllium	0.35	0.32	mg/Kg	1	05/11/23	TH	SW6010D
Cadmium	0.43	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Chromium	22.0	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Copper	16.7	0.8	mg/kg	1	05/11/23	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/05/23	PM	SW7471B
Nickel	21.3	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Lead	8.51	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	05/11/23	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/11/23	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	05/11/23	TH	SW6010D
Vanadium	26.4	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Zinc	51.9	0.8	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	82		%		05/04/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/10/23	C/Y	SW3546
Field Extraction	Completed				05/04/23		SW5035A
Mercury Digestion	Completed				05/05/23	Z/Z	SW7471B
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA	Completed				05/10/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	8400	600	mg/Kg	10	05/12/23	JRB	CTETPH
Identification	**		mg/Kg	10	05/12/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	Diluted Out		%	10	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	Diluted Out		%	10	05/12/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	05/11/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	76		%	10	05/11/23	SC	30 - 150 %
% DCBP (Confirmation)	86		%	10	05/11/23	SC	30 - 150 %
% TCMX	68		%	10	05/11/23	SC	30 - 150 %
% TCMX (Confirmation)	67		%	10	05/11/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	1000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	56000	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dibromoethane	ND	700	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	3100	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	700	ug/Kg	1000	05/09/23	JLI	SW8260C
1,2-Dichloropropane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	21000	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
2-Hexanone	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	14000	ug/Kg	1000	05/09/23	JLI	SW8260C
Acetone	ND	140000	ug/Kg	1000	05/09/23	JLI	SW8260C
Acrylonitrile	ND	700	ug/Kg	1000	05/09/23	JLI	SW8260C
Benzene	ND	700	ug/Kg	1000	05/09/23	JLI	SW8260C
Bromobenzene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Bromoform	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Bromomethane	ND	2800	ug/Kg	1000	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Chlorobenzene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Chloroethane	ND	1500	ug/Kg	1000	05/09/23	JLI	SW8260C
Chloroform	ND	1200	ug/Kg	1000	05/09/23	JLI	SW8260C
Chloromethane	ND	3600	ug/Kg	1000	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Dibromomethane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Ethylbenzene	5300	4900	ug/Kg	1000	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	1500	ug/Kg	1000	05/09/23	JLI	SW8260C
Isopropylbenzene	4200	4200	ug/Kg	1000	05/09/23	JLI	SW8260C
m&p-Xylene	12000	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	42000	ug/Kg	1000	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14000	ug/Kg	1000	05/09/23	JLI	SW8260C
Methylene chloride	ND	2800	ug/Kg	1000	05/09/23	JLI	SW8260C
Naphthalene	38000	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
n-Butylbenzene	12000	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
n-Propylbenzene	9600	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
o-Xylene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
p-Isopropyltoluene	7400	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
sec-Butylbenzene	10000	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Styrene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	1400	ug/Kg	1000	05/09/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	3500	ug/Kg	1000	05/09/23	JLI	SW8260C
Toluene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Total Xylenes	12000	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14000	ug/Kg	1000	05/09/23	JLI	SW8260C
Trichloroethene	ND	1000	ug/Kg	1000	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	7000	ug/Kg	1000	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	14000	ug/Kg	1000	05/09/23	JLI	SW8260C
Vinyl chloride	ND	700	ug/Kg	1000	05/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (1000x)	95		%	1000	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene (1000x)	105		%	1000	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane (1000x)	108		%	1000	05/09/23	JLI	70 - 130 %
% Toluene-d8 (1000x)	93		%	1000	05/09/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	770	ug/Kg	5	05/11/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
2,4-Dichlorophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,4-Dimethylphenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2,4-Dinitrophenol	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	900	ug/Kg	5	05/11/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	900	ug/Kg	5	05/11/23	KCA	SW8270D
2-Chloronaphthalene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2-Chlorophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2-Methylnaphthalene	45000	7000	ug/Kg	25	05/11/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
2-Nitroaniline	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
2-Nitrophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
3-Nitroaniline	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
4-Chloroaniline	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
4-Nitroaniline	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
4-Nitrophenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Acenaphthene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Acenaphthylene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Acetophenone	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Aniline	ND	1200	ug/Kg	5	05/11/23	KCA	SW8270D
Anthracene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Benz(a)anthracene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzidine	ND	800	ug/Kg	5	05/11/23	KCA	SW8270D
Benzo(a)pyrene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzoic acid	ND	4000	ug/Kg	5	05/11/23	KCA	SW8270D
Benzyl butyl phthalate	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
Carbazole	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Chrysene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Dibenzofuran	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Diethyl phthalate	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Di-n-butylphthalate	ND	2000	ug/Kg	5	05/11/23	KCA	SW8270D
Di-n-octylphthalate	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Fluoranthene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Fluorene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Hexachlorobenzene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Hexachlorobutadiene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Hexachloroethane	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Isophorone	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Naphthalene	18000	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Nitrobenzene	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	400	ug/Kg	5	05/11/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	400	ug/Kg	5	05/11/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Pentachloronitrobenzene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Pentachlorophenol	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
Phenanthrene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Phenol	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Pyrene	ND	1400	ug/Kg	5	05/11/23	KCA	SW8270D
Pyridine	ND	1000	ug/Kg	5	05/11/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol (5x)	67		%	5	05/11/23	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	61		%	5	05/11/23	KCA	30 - 130 %
% 2-Fluorophenol (5x)	56		%	5	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	122		%	5	05/11/23	KCA	30 - 130 %
% Phenol-d5 (5x)	60		%	5	05/11/23	KCA	30 - 130 %
% Terphenyl-d14 (5x)	63		%	5	05/11/23	KCA	30 - 130 %
% 2,4,6-Tribromophenol (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% 2-Fluorobiphenyl (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% 2-Fluorophenol (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5 (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% Phenol-d5 (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %
% Terphenyl-d14 (25x)	Diluted Out		%	25	05/11/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

Semi-Volatile Comment:

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C22. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

11:55
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97927

Project ID: BRAINARD AIRPORT
 Client ID: B-44 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.43	0.43	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	78		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	73		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	160	150	ug/Kg	50	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.53	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	15	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/09/23	JLI	SW8260C
2-Isopropyltoluene	4.6	4.3	ug/Kg	1	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/09/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/09/23	JLI	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Benzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromoform	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroform	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Isopropylbenzene	12	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
m&p-Xylene	4.6	4.3	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Naphthalene	88	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
n-Butylbenzene	24	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
n-Propylbenzene	26	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
p-Isopropyltoluene	6.3	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
sec-Butylbenzene	19	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Styrene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Toluene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Total Xylenes	4.6	4.3	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	05/09/23	JLI	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	96		%	1	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene	105		%	1	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/09/23	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/09/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	96		%	50	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	102		%	50	05/09/23	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	05/09/23	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)anthracene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/12/23	RM	SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	78		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	81		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	81		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date Time
05/04/23 12:20
05/04/23 15:35

Laboratory Data

SDG ID: GCN97920
Phoenix ID: CN97928

Project ID: BRAINARD AIRPORT
Client ID: B-45 (6-8)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Percent Solid, Field Extraction, and Extraction of ETPH.

TPH by GC (Extractable Products)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Ext. Petroleum H.C. (C9-C36) and Identification.

QA/QC Surrogates

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include % COD (surr) and % Terphenyl (surr).

Volatiles

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Lists various chlorinated hydrocarbons and benzene derivatives.

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
2-Hexanone	ND	1500	ug/Kg	50	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1500	ug/Kg	50	05/09/23	JLI	SW8260C
Acetone	ND	15000	ug/Kg	50	05/09/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/09/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/09/23	JLI	SW8260C
Bromobenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Bromochloromethane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/09/23	JLI	SW8260C
Bromoform	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Bromomethane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Chlorobenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Chloroethane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Chloroform	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Chloromethane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/09/23	JLI	SW8260C
Dibromomethane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Ethylbenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
m&p-Xylene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	1800	ug/Kg	50	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	590	ug/Kg	50	05/09/23	JLI	SW8260C
Methylene chloride	ND	590	ug/Kg	50	05/09/23	JLI	SW8260C
Naphthalene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
o-Xylene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Styrene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	590	ug/Kg	50	05/09/23	JLI	SW8260C
Toluene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Total Xylenes	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	590	ug/Kg	50	05/09/23	JLI	SW8260C
Trichloroethene	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	590	ug/Kg	50	05/09/23	JLI	SW8260C
Vinyl chloride	ND	290	ug/Kg	50	05/09/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	105		%	50	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	101		%	50	05/09/23	JLI	70 - 130 %
% Toluene-d8 (50x)	92		%	50	05/09/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
 Elevated reporting limits for volatiles due to the presence of non-target compounds.

TPH Comment:
 **Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C18. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director
May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/04/23
05/04/23

Time

15:35

Laboratory Data

SDG ID: GCN97920
Phoenix ID: CN97929

Project ID: BRAINARD AIRPORT
Client ID: TB050422L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction	Completed				05/04/23		SW5035A
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Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/08/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	05/08/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	94		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/08/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date: 05/04/23
Time: 15:35

Laboratory Data

SDG ID: GCN97920
Phoenix ID: CN97930

Project ID: BRAINARD AIRPORT
Client ID: TB050422H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/04/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/09/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/09/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/09/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/09/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/09/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/09/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/09/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/09/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/09/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/09/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/09/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/09/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	05/09/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	91		%	50	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	05/09/23	JLI	70 - 130 %
% Toluene-d8 (50x)	95		%	50	05/09/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date Time

05/04/23 11:25
 05/04/23 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97931

Project ID: BRAINARD AIRPORT
 Client ID: B-49 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.04	0.44	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	74		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	67	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	76		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	76		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.57	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/Kg	1	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/08/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	78		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date Time
05/04/23 7:55
05/04/23 15:35

Laboratory Data

SDG ID: GCN97920
Phoenix ID: CN97932

Project ID: BRAINARD AIRPORT
Client ID: B-50 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	68		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	71	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	60		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	62		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.78	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	39	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	39	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	390	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	4.7	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	47	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	7.8	ug/Kg	1	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/08/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

11:00
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97933

Project ID: BRAINARD AIRPORT
 Client ID: B-51 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.41	0.44	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	70		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	70	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	89		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	82		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.58	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/08/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	82		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	83		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	79		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/04/23
05/04/23

Time

9:15
15:35

Laboratory Data

SDG ID: GCN97920
Phoenix ID: CN97934

Project ID: BRAINARD AIRPORT
Client ID: B-52 (8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	73		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	68	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	54		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	52		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/08/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.55	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/08/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/08/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/08/23	JLI	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Bromoform	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Chloroform	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	05/08/23	JLI	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Styrene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/08/23	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	05/08/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/08/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

10:45
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97935

Project ID: BRAINARD AIRPORT
 Client ID: B-53 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.00	0.46	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	72		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	68	mg/Kg	1	05/11/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/11/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	77		%	1	05/11/23	JRB	50 - 150 %
% Terphenyl (surr)	65		%	1	05/11/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.63	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	05/09/23	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	05/09/23	JLI	SW8260C
Acrylonitrile	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Benzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromobenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromochloromethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromoform	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Bromomethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Chlorobenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroform	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Chloromethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromomethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Ethylbenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
m&p-Xylene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/09/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/09/23	JLI	SW8260C
Naphthalene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
o-Xylene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Styrene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/09/23	JLI	SW8260C
Toluene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Total Xylenes	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/09/23	JLI	SW8260C
Trichloroethene	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/09/23	JLI	SW8260C
Vinyl chloride	ND	6.3	ug/Kg	1	05/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	05/09/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/09/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	75		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

9:35
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97936

Project ID: BRAINARD AIRPORT
 Client ID: B-54 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	71		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	71		%	1	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	61		%	1	05/12/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.57	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/09/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/09/23	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Naphthalene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
o-Xylene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Total Xylenes	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Trichloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/09/23	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/09/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

10:15
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97937

Project ID: BRAINARD AIRPORT
 Client ID: B-55 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2.81	0.51	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	70		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	71	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	70		%	1	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	60		%	1	05/12/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/09/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/09/23	JLI	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Benzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Bromoform	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroform	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Styrene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C

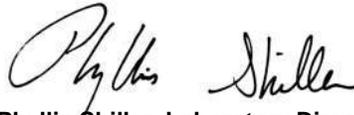
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/09/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/09/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	80		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	83		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	76		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

9:55
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97938

Project ID: BRAINARD AIRPORT
 Client ID: B-56 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	73		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	68	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	84		%	1	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	82		%	1	05/12/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.59	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/09/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/09/23	JLI	SW8260C
Acrylonitrile	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Benzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Bromobenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Bromoform	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Bromomethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroform	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Chloromethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromomethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Naphthalene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
o-Xylene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Styrene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Toluene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Total Xylenes	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Trichloroethene	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/09/23	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/Kg	1	05/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/09/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/09/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/04/23
05/04/23

Time

13:35
15:35

Laboratory Data

SDG ID: GCN97920
Phoenix ID: CN97939

Project ID: BRAINARD AIRPORT
Client ID: B-84 (0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	13.1	0.37	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	85		%		05/04/23	CV	SW846-%Solid
Field Extraction	Completed				05/04/23		SW5035A
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	103		%	1	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	94		%	1	05/12/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/09/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.57	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
2-Chlorotoluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/09/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
4-Chlorotoluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/09/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/09/23	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/09/23	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Naphthalene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
o-Xylene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C

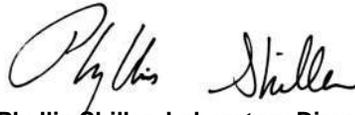
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Total Xylenes	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Trichloroethene	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/09/23	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/Kg	1	05/09/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/09/23	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/09/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	270	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	72		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 15, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/04/23
 05/04/23

Time

14:15
 15:35

Laboratory Data

SDG ID: GCN97920
 Phoenix ID: CN97940

Project ID: BRAINARD AIRPORT
 Client ID: B-107 (0.5-2.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Arsenic	3.36	0.79	mg/Kg	1	05/11/23	TH	SW6010D
Barium	60.0	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Cadmium	0.40	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Chromium	23.0	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/05/23	PM	SW7471B
Lead	5.34	0.40	mg/Kg	1	05/11/23	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/11/23	TH	SW6010D
Percent Solid	83		%		05/04/23	CV	SW846-%Solid
Mercury Digestion	Completed				05/05/23	Z/Z	SW7471B
Extraction of ETPH	Completed				05/10/23	/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	05/12/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/12/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	84		%	1	05/12/23	JRB	50 - 150 %
% Terphenyl (surr)	77		%	1	05/12/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D

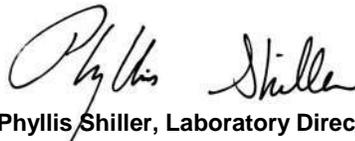
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(a)pyrene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	280	ug/Kg	1	05/12/23	RM	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	81		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	73		%	1	05/12/23	RM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 15, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 15, 2023

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 676266 (mg/kg), QC Sample No: CN97973 2X (CN97925, CN97926, CN97940)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	103	112	8.4	108	109	0.9	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 676379 (mg/kg), QC Sample No: CN97833 (CN97920, CN97921, CN97923, CN97924, CN97925, CN97926, CN97927, CN97931, CN97933, CN97935, CN97937, CN97939, CN97940)

ICP Metals - Soil

Antimony	BRL	3.3	<3.8	<3.9	NC	99.4	106	6.4	84.3			75 - 125	35
Arsenic	BRL	0.67	5.69	5.01	12.7	101	106	4.8	90.1			75 - 125	35
Barium	BRL	0.33	43.6	47.9	9.40	99.9	103	3.1	93.2			75 - 125	35
Beryllium	BRL	0.27	<0.31	<0.31	NC	99.8	100	0.2	90.9			75 - 125	35
Cadmium	BRL	0.33	0.48	0.41	NC	101	96.8	4.2	88.0			75 - 125	35
Chromium	BRL	0.33	8.44	7.09	17.4	101	102	1.0	89.3			75 - 125	35
Copper	BRL	0.67	26.1	20.8	22.6	98.5	103	4.5	88.1			75 - 125	35
Lead	BRL	0.33	34.9	36.3	3.90	92.4	90.3	2.3	90.3			75 - 125	35
Nickel	BRL	0.33	13.9	11.7	17.2	102	102	0.0	89.3			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.6	NC	98.6	105	6.3	89.2			75 - 125	35
Silver	BRL	0.33	<0.38	<0.39	NC	99.9	103	3.1	92.5			75 - 125	35
Thallium	BRL	3.0	<3.4	<3.5	NC	98.1	102	3.9	89.5			75 - 125	35
Vanadium	BRL	0.33	10.5	9.31	12.0	102	105	2.9	91.9			75 - 125	35
Zinc	BRL	0.67	67.4	61.9	8.50	104	106	1.9	89.4			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 15, 2023

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 676854 (mg/Kg), QC Sample No: CN96576 (CN97920, CN97921, CN97922)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	119	96	21.4	64	89	32.7	60 - 120	30
% COD (surr)	96	%	114	94	19.2	89	99	10.6	50 - 150	30
% Terphenyl (surr)	84	%	81	77	5.1	57	63	10.0	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 677077 (mg/Kg), QC Sample No: CN97940 (CN97924, CN97925, CN97926, CN97927, CN97928, CN97931, CN97932, CN97933, CN97934, CN97935, CN97936, CN97937, CN97938, CN97939, CN97940)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	65	63	3.1	75	86	13.7	60 - 120	30
% COD (surr)	48	%	99	91	8.4	109	128	16.0	50 - 150	30
% Terphenyl (surr)	59	%	87	84	3.5	98	111	12.4	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 677076 (mg/Kg), QC Sample No: CN99093 (CN97923)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	75	88	96	8.7				60 - 120	30
% COD (surr)	56	%	76	96	23.3				50 - 150	30
% Terphenyl (surr)	85	%	70	73	4.2				50 - 150	30

Comment:

**The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within method criteria.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 677086 (ug/Kg), QC Sample No: CN98245 2X (CN97926)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	69	82	17.2	74	77	4.0	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	70	84	18.2	74	74	0.0	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	78	%	69	89	25.3	72	74	2.7	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	81	%	73	94	25.1	76	78	2.6	30 - 150	30
% TCMX (Surrogate Rec)	78	%	66	85	25.2	70	73	4.2	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	72	%	63	80	23.8	66	68	3.0	30 - 150	30

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 676899 (ug/Kg), QC Sample No: CO01062 2X (CN97925)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	95	88	7.7	87	76	13.5	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	102	92	10.3	86	79	8.5	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	85	%	101	93	8.2	89	80	10.7	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	68	%	86	81	6.0	77	69	11.0	30 - 150	30
% TCMX (Surrogate Rec)	54	%	78	73	6.6	75	70	6.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	68	%	92	84	9.1	84	76	10.0	30 - 150	30

QA/QC Batch 677148 (ug/kg), QC Sample No: CN97781 (CN97920, CN97921, CN97923)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	68	63	7.6	49	50	2.0	40 - 140	30
Acenaphthene	ND	230	67	63	6.2	51	49	4.0	30 - 130	30
Acenaphthylene	ND	230	68	64	6.1	48	49	2.1	40 - 140	30
Anthracene	ND	230	75	68	9.8	53	54	1.9	40 - 140	30
Benz(a)anthracene	ND	230	74	68	8.5	46	50	8.3	40 - 140	30
Benzo(a)pyrene	ND	230	80	73	9.2	46	49	6.3	40 - 140	30
Benzo(b)fluoranthene	ND	230	80	73	9.2	47	52	10.1	40 - 140	30
Benzo(ghi)perylene	ND	230	84	75	11.3	40	41	2.5	40 - 140	30
Benzo(k)fluoranthene	ND	230	74	68	8.5	48	49	2.1	40 - 140	30
Chrysene	ND	230	78	71	9.4	45	48	6.5	40 - 140	30
Dibenz(a,h)anthracene	ND	230	84	74	12.7	44	44	0.0	40 - 140	30
Fluoranthene	ND	230	79	72	9.3	53	64	18.8	40 - 140	30
Fluorene	ND	230	72	67	7.2	54	55	1.8	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	76	68	11.1	37	39	5.3	40 - 140	30
Naphthalene	ND	230	64	61	4.8	49	50	2.0	40 - 140	30
Phenanthrene	ND	230	72	66	8.7	49	53	7.8	40 - 140	30
Pyrene	ND	230	78	71	9.4	52	61	15.9	30 - 130	30
% 2-Fluorobiphenyl	73	%	65	61	6.3	48	48	0.0	30 - 130	30
% Nitrobenzene-d5	84	%	68	69	1.5	62	64	3.2	30 - 130	30
% Terphenyl-d14	81	%	72	66	8.7	50	51	2.0	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 677185 (ug/kg), QC Sample No: CN97939 (CN97924, CN97927, CN97931, CN97933, CN97935, CN97937, CN97939, CN97940)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	77	61	23.2	67	75	11.3	40 - 140	30
Acenaphthene	ND	230	76	64	17.1	68	74	8.5	30 - 130	30
Acenaphthylene	ND	230	72	60	18.2	66	70	5.9	40 - 140	30
Anthracene	ND	230	80	72	10.5	73	79	7.9	40 - 140	30
Benz(a)anthracene	ND	230	74	65	12.9	68	76	11.1	40 - 140	30
Benzo(a)pyrene	ND	230	99	80	21.2	79	87	9.6	40 - 140	30
Benzo(b)fluoranthene	ND	230	100	77	26.0	71	79	10.7	40 - 140	30
Benzo(ghi)perylene	ND	230	122	92	28.0	87	94	7.7	40 - 140	30

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Benzo(k)fluoranthene	ND	230	90	70	25.0	64	69	7.5	40 - 140	30
Chrysene	ND	230	78	71	9.4	71	79	10.7	40 - 140	30
Dibenz(a,h)anthracene	ND	230	119	91	26.7	83	88	5.8	40 - 140	30
Fluoranthene	ND	230	78	69	12.2	70	82	15.8	40 - 140	30
Fluorene	ND	230	84	72	15.4	76	82	7.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	122	92	28.0	86	94	8.9	40 - 140	30
Naphthalene	ND	230	87	68	24.5	74	85	13.8	40 - 140	30
Phenanthrene	ND	230	81	72	11.8	73	84	14.0	40 - 140	30
Pyrene	ND	230	77	69	11.0	70	79	12.1	30 - 130	30
% 2-Fluorobiphenyl	65	%	71	58	20.2	63	69	9.1	30 - 130	30
% Nitrobenzene-d5	61	%	73	56	26.4	61	69	12.3	30 - 130	30
% Terphenyl-d14	68	%	73	63	14.7	65	67	3.0	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676950 (ug/kg), QC Sample No: CN97966 (CN97925, CN97926)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	52	54	3.8	58	58	0.0	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	48	49	2.1	55	55	0.0	40 - 140	30
1,2-Dichlorobenzene	ND	180	41	47	13.6	51	52	1.9	40 - 140	30
1,2-Diphenylhydrazine	ND	230	59	57	3.4	62	61	1.6	40 - 140	30
1,3-Dichlorobenzene	ND	230	39	44	12.0	49	50	2.0	40 - 140	30
1,4-Dichlorobenzene	ND	230	40	44	9.5	51	51	0.0	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	46	51	10.3	56	57	1.8	40 - 140	30
2,4,5-Trichlorophenol	ND	230	65	62	4.7	68	67	1.5	40 - 140	30
2,4,6-Trichlorophenol	ND	130	65	62	4.7	69	68	1.5	30 - 130	30
2,4-Dichlorophenol	ND	130	59	60	1.7	65	64	1.6	30 - 130	30
2,4-Dimethylphenol	ND	230	65	65	0.0	69	71	2.9	30 - 130	30
2,4-Dinitrophenol	ND	230	64	66	3.1	65	58	11.4	30 - 130	30
2,4-Dinitrotoluene	ND	130	73	70	4.2	72	72	0.0	30 - 130	30
2,6-Dinitrotoluene	ND	130	65	63	3.1	68	67	1.5	40 - 140	30
2-Chloronaphthalene	ND	230	55	54	1.8	60	59	1.7	40 - 140	30
2-Chlorophenol	ND	230	51	56	9.3	60	60	0.0	30 - 130	30
2-Methylnaphthalene	ND	230	53	54	1.9	59	60	1.7	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	52	56	7.4	58	60	3.4	40 - 140	30
2-Nitroaniline	ND	330	82	63	26.2	84	94	11.2	40 - 140	30
2-Nitrophenol	ND	230	71	75	5.5	83	81	2.4	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	64	69	7.5	71	74	4.1	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	36	25	36.1	47	66	33.6	40 - 140	30
3-Nitroaniline	ND	330	24	11	74.3	33	58	54.9	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	67	65	3.0	63	58	8.3	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	64	60	6.5	64	64	0.0	40 - 140	30
4-Chloro-3-methylphenol	ND	230	69	68	1.5	71	72	1.4	30 - 130	30
4-Chloroaniline	ND	230	15	<10	NC	27	55	68.3	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	62	61	1.6	64	65	1.6	40 - 140	30
4-Nitroaniline	ND	230	70	61	13.7	74	73	1.4	40 - 140	30
4-Nitrophenol	ND	230	85	78	8.6	77	76	1.3	30 - 130	30
Acenaphthene	ND	230	56	55	1.8	60	59	1.7	30 - 130	30
Acenaphthylene	ND	130	54	52	3.8	58	58	0.0	40 - 140	30
Acetophenone	ND	230	52	56	7.4	59	59	0.0	40 - 140	30
Aniline	ND	330	<10	<10	NC	24	41	52.3	40 - 140	30
Anthracene	ND	230	63	57	10.0	63	63	0.0	40 - 140	30

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Benz(a)anthracene	ND	230	61	56	8.5	64	64	0.0	40 - 140	30	
Benzidine	ND	330	<10	<10	NC	<10	44	NC	40 - 140	30	I,m
Benzo(a)pyrene	ND	130	70	63	10.5	70	70	0.0	40 - 140	30	
Benzo(b)fluoranthene	ND	160	63	59	6.6	62	60	3.3	40 - 140	30	
Benzo(ghi)perylene	ND	230	67	59	12.7	66	67	1.5	40 - 140	30	
Benzo(k)fluoranthene	ND	230	59	53	10.7	56	56	0.0	40 - 140	30	
Benzoic Acid	ND	670	70	75	6.9	64	69	7.5	30 - 130	30	
Benzyl butyl phthalate	ND	230	72	68	5.7	73	70	4.2	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	54	54	0.0	58	58	0.0	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	48	52	8.0	56	57	1.8	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	70	65	7.4	70	68	2.9	40 - 140	30	
Carbazole	ND	230	60	55	8.7	59	60	1.7	40 - 140	30	
Chrysene	ND	230	63	57	10.0	63	64	1.6	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	69	60	14.0	64	64	0.0	40 - 140	30	
Dibenzofuran	ND	230	56	55	1.8	60	59	1.7	40 - 140	30	
Diethyl phthalate	ND	230	65	62	4.7	66	65	1.5	40 - 140	30	
Dimethylphthalate	ND	230	61	59	3.3	63	63	0.0	40 - 140	30	
Di-n-butylphthalate	ND	670	68	62	9.2	65	65	0.0	40 - 140	30	
Di-n-octylphthalate	ND	230	69	65	6.0	70	68	2.9	40 - 140	30	
Fluoranthene	ND	230	62	56	10.2	61	62	1.6	40 - 140	30	
Fluorene	ND	230	63	61	3.2	65	65	0.0	40 - 140	30	
Hexachlorobenzene	ND	130	70	65	7.4	72	70	2.8	40 - 140	30	
Hexachlorobutadiene	ND	230	52	54	3.8	60	61	1.7	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	48	54	11.8	50	42	17.4	40 - 140	30	
Hexachloroethane	ND	130	43	50	15.1	54	54	0.0	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	71	62	13.5	69	69	0.0	40 - 140	30	
Isophorone	ND	130	50	50	0.0	55	55	0.0	40 - 140	30	
Naphthalene	ND	230	51	51	0.0	57	57	0.0	40 - 140	30	
Nitrobenzene	ND	130	55	61	10.3	64	66	3.1	40 - 140	30	
N-Nitrosodimethylamine	ND	230	33	37	11.4	41	42	2.4	40 - 140	30	I
N-Nitrosodi-n-propylamine	ND	130	58	65	11.4	67	68	1.5	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	59	56	5.2	61	60	1.7	40 - 140	30	
Pentachloronitrobenzene	ND	230	68	66	3.0	71	71	0.0	40 - 140	30	
Pentachlorophenol	ND	230	64	61	4.8	67	67	0.0	30 - 130	30	
Phenanthrene	ND	130	61	56	8.5	64	64	0.0	40 - 140	30	
Phenol	ND	230	51	54	5.7	59	62	5.0	30 - 130	30	
Pyrene	ND	230	61	56	8.5	61	61	0.0	30 - 130	30	
Pyridine	ND	230	32	31	3.2	32	32	0.0	40 - 140	30	I,m
% 2,4,6-Tribromophenol	67	%	76	72	5.4	81	82	1.2	30 - 130	30	
% 2-Fluorobiphenyl	47	%	53	51	3.8	57	56	1.8	30 - 130	30	
% 2-Fluorophenol	44	%	43	47	8.9	51	53	3.8	30 - 130	30	
% Nitrobenzene-d5	52	%	53	60	12.4	64	65	1.6	30 - 130	30	
% Phenol-d5	50	%	52	56	7.4	60	62	3.3	30 - 130	30	
% Terphenyl-d14	49	%	55	51	7.5	52	53	1.9	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676806 (ug/kg), QC Sample No: CN97920 (CN97920, CN97921, CN97923, CN97924, CN97931, CN97932, CN97933, CN97934)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	122	125	2.4	99		70 - 130	30
1,1,1-Trichloroethane	ND	5.0	105	109	3.7	84		70 - 130	30

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,2,2-Tetrachloroethane	ND	3.0	107	108	0.9	89			70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	105	107	1.9	88			70 - 130	30	
1,1-Dichloroethane	ND	5.0	86	90	4.5	69			70 - 130	30	m
1,1-Dichloroethene	ND	5.0	92	94	2.2	74			70 - 130	30	
1,1-Dichloropropene	ND	5.0	106	107	0.9	88			70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	116	122	5.0	84			70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	99	100	1.0	85			70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	117	123	5.0	85			70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	112	115	2.6	92			70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	129	133	3.1	96			70 - 130	30	l
1,2-Dibromoethane	ND	5.0	114	115	0.9	93			70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	108	110	1.8	88			70 - 130	30	
1,2-Dichloroethane	ND	5.0	93	93	0.0	81			70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	100	1.0	82			70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	111	114	2.7	93			70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	111	114	2.7	91			70 - 130	30	
1,3-Dichloropropane	ND	5.0	105	105	0.0	87			70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	109	111	1.8	88			70 - 130	30	
2,2-Dichloropropane	ND	5.0	121	125	3.3	73			70 - 130	30	
2-Chlorotoluene	ND	5.0	112	115	2.6	93			70 - 130	30	
2-Hexanone	ND	25	91	91	0.0	74			70 - 130	30	
2-Isopropyltoluene	ND	5.0	109	113	3.6	91			70 - 130	30	
4-Chlorotoluene	ND	5.0	114	117	2.6	93			70 - 130	30	
4-Methyl-2-pentanone	ND	25	93	94	1.1	79			70 - 130	30	
Acetone	ND	10	66	68	3.0	135			70 - 130	30	l,m
Acrylonitrile	ND	5.0	80	82	2.5	60			70 - 130	30	m
Benzene	ND	1.0	104	107	2.8	87			70 - 130	30	
Bromobenzene	ND	5.0	111	114	2.7	94			70 - 130	30	
Bromochloromethane	ND	5.0	107	108	0.9	86			70 - 130	30	
Bromodichloromethane	ND	5.0	106	106	0.0	88			70 - 130	30	
Bromoform	ND	5.0	126	128	1.6	100			70 - 130	30	
Bromomethane	ND	5.0	78	82	5.0	64			70 - 130	30	m
Carbon Disulfide	ND	5.0	83	87	4.7	65			70 - 130	30	m
Carbon tetrachloride	ND	5.0	111	113	1.8	85			70 - 130	30	
Chlorobenzene	ND	5.0	107	109	1.9	90			70 - 130	30	
Chloroethane	ND	5.0	83	92	10.3	67			70 - 130	30	m
Chloroform	ND	5.0	96	103	7.0	82			70 - 130	30	
Chloromethane	ND	5.0	93	96	3.2	75			70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	102	106	3.8	83			70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	113	115	1.8	87			70 - 130	30	
Dibromochloromethane	ND	3.0	121	122	0.8	100			70 - 130	30	
Dibromomethane	ND	5.0	101	104	2.9	84			70 - 130	30	
Dichlorodifluoromethane	ND	5.0	102	104	1.9	79			70 - 130	30	
Ethylbenzene	ND	1.0	111	114	2.7	92			70 - 130	30	
Hexachlorobutadiene	ND	5.0	111	116	4.4	79			70 - 130	30	
Isopropylbenzene	ND	1.0	111	115	3.5	93			70 - 130	30	
m&p-Xylene	ND	2.0	109	112	2.7	91			70 - 130	30	
Methyl ethyl ketone	ND	5.0	76	80	5.1	67			70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	1.0	88	90	2.2	68			70 - 130	30	m
Methylene chloride	ND	5.0	81	86	6.0	126			70 - 130	30	
Naphthalene	ND	5.0	122	125	2.4	88			70 - 130	30	
n-Butylbenzene	ND	1.0	112	116	3.5	89			70 - 130	30	
n-Propylbenzene	ND	1.0	111	115	3.5	93			70 - 130	30	

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
o-Xylene	ND	2.0	110	113	2.7	91			70 - 130	30
p-Isopropyltoluene	ND	1.0	113	117	3.5	92			70 - 130	30
sec-Butylbenzene	ND	1.0	110	115	4.4	91			70 - 130	30
Styrene	ND	5.0	111	113	1.8	91			70 - 130	30
tert-Butylbenzene	ND	1.0	111	115	3.5	93			70 - 130	30
Tetrachloroethene	ND	5.0	107	109	1.9	88			70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	85	86	1.2	62			70 - 130	30 m
Toluene	ND	1.0	107	108	0.9	90			70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	89	92	3.3	72			70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	123	125	1.6	92			70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	107	108	0.9	75			70 - 130	30
Trichloroethene	ND	5.0	105	106	0.9	87			70 - 130	30
Trichlorofluoromethane	ND	5.0	91	95	4.3	73			70 - 130	30
Trichlorotrifluoroethane	ND	5.0	88	92	4.4	71			70 - 130	30
Vinyl chloride	ND	5.0	87	90	3.4	68			70 - 130	30 m
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	102			70 - 130	30
% Bromofluorobenzene	97	%	101	99	2.0	100			70 - 130	30
% Dibromofluoromethane	102	%	101	102	1.0	96			70 - 130	30
% Toluene-d8	99	%	98	98	0.0	99			70 - 130	30

Comment:

The MSD is not reported for this LL soil batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677057 (ug/kg), QC Sample No: CN97922 (CN97922, CN97927)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	95	110	14.6	109	110	0.9	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	94	104	10.1	109	109	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	94	103	9.1	105	103	1.9	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	90	103	13.5	100	100	0.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	99	100	1.0	113	113	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	92	100	8.3	105	104	1.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	93	104	11.2	109	108	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	91	104	13.3	94	92	2.2	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	94	98	4.2	101	100	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	88	101	13.8	94	91	3.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	90	102	12.5	105	105	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	100	115	14.0	106	106	0.0	70 - 130	30
1,2-Dibromoethane	ND	5.0	93	103	10.2	102	101	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	91	103	12.4	105	103	1.9	70 - 130	30
1,2-Dichloroethane	ND	5.0	91	105	14.3	103	101	2.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	92	104	12.2	104	105	1.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	94	106	12.0	110	109	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	91	101	10.4	103	101	2.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	92	102	10.3	104	102	1.9	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	91	103	12.4	103	103	0.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	97	107	9.8	100	101	1.0	70 - 130	30
2-Chlorotoluene	ND	5.0	93	105	12.1	111	110	0.9	70 - 130	30
2-Hexanone	ND	25	89	99	10.6	102	101	1.0	70 - 130	30
2-Isopropyltoluene	ND	5.0	93	105	12.1	110	109	0.9	70 - 130	30
4-Chlorotoluene	ND	5.0	92	102	10.3	107	106	0.9	70 - 130	30
4-Methyl-2-pentanone	ND	25	91	101	10.4	97	96	1.0	70 - 130	30
Acetone	ND	10	83	88	5.8	93	155	50.0	70 - 130	30 m,r

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Acrylonitrile	ND	5.0	103	90	13.5	100	102	2.0	70 - 130	30
Benzene	ND	1.0	89	101	12.6	104	104	0.0	70 - 130	30
Bromobenzene	ND	5.0	95	109	13.7	111	109	1.8	70 - 130	30
Bromochloromethane	ND	5.0	92	102	10.3	102	101	1.0	70 - 130	30
Bromodichloromethane	ND	5.0	93	109	15.8	104	106	1.9	70 - 130	30
Bromoform	ND	5.0	93	110	16.7	96	97	1.0	70 - 130	30
Bromomethane	ND	5.0	87	96	9.8	102	98	4.0	70 - 130	30
Carbon Disulfide	ND	5.0	85	95	11.1	97	97	0.0	70 - 130	30
Carbon tetrachloride	ND	5.0	96	108	11.8	102	104	1.9	70 - 130	30
Chlorobenzene	ND	5.0	91	102	11.4	106	105	0.9	70 - 130	30
Chloroethane	ND	5.0	91	102	11.4	105	104	1.0	70 - 130	30
Chloroform	ND	5.0	89	98	9.6	102	101	1.0	70 - 130	30
Chloromethane	ND	5.0	94	104	10.1	99	97	2.0	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	92	104	12.2	108	106	1.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	95	111	15.5	104	104	0.0	70 - 130	30
Dibromochloromethane	ND	3.0	94	110	15.7	102	104	1.9	70 - 130	30
Dibromomethane	ND	5.0	94	107	12.9	103	104	1.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	97	107	9.8	94	91	3.2	70 - 130	30
Ethylbenzene	ND	1.0	90	100	10.5	106	106	0.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	91	107	16.2	100	99	1.0	70 - 130	30
Isopropylbenzene	ND	1.0	95	107	11.9	116	112	3.5	70 - 130	30
m&p-Xylene	ND	2.0	88	99	11.8	103	102	1.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	90	95	5.4	89	95	6.5	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	87	97	10.9	95	93	2.1	70 - 130	30
Methylene chloride	ND	5.0	84	94	11.2	111	109	1.8	70 - 130	30
Naphthalene	ND	5.0	97	109	11.7	100	99	1.0	70 - 130	30
n-Butylbenzene	ND	1.0	97	109	11.7	110	109	0.9	70 - 130	30
n-Propylbenzene	ND	1.0	94	106	12.0	113	112	0.9	70 - 130	30
o-Xylene	ND	2.0	89	100	11.6	104	104	0.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	94	106	12.0	110	109	0.9	70 - 130	30
sec-Butylbenzene	ND	1.0	94	105	11.1	111	110	0.9	70 - 130	30
Styrene	ND	5.0	88	100	12.8	101	99	2.0	70 - 130	30
tert-Butylbenzene	ND	1.0	95	105	10.0	112	111	0.9	70 - 130	30
Tetrachloroethene	ND	5.0	94	105	11.1	108	106	1.9	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	86	96	11.0	84	92	9.1	70 - 130	30
Toluene	ND	1.0	90	104	14.4	106	106	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	90	97	7.5	103	101	2.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	96	113	16.3	102	103	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	103	119	14.4	103	100	3.0	70 - 130	30
Trichloroethene	ND	5.0	92	105	13.2	106	107	0.9	70 - 130	30
Trichlorofluoromethane	ND	5.0	93	102	9.2	104	103	1.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	83	91	9.2	92	93	1.1	70 - 130	30
Vinyl chloride	ND	5.0	94	103	9.1	101	100	1.0	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	102	101	1.0	101	100	1.0	70 - 130	30
% Bromofluorobenzene	100	%	98	99	1.0	98	97	1.0	70 - 130	30
% Dibromofluoromethane	107	%	99	99	0.0	99	102	3.0	70 - 130	30
% Toluene-d8	94	%	102	103	1.0	101	102	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 676791H (ug/kg), QC Sample No: CN99851 50X (CN97925 (1000X) , CN97926 (1000X) , CN97927 (50X) , CN97928 (50X))											
<u>Volatiles - Soil (High Level)</u>											
1,1,1,2-Tetrachloroethane	ND	250	109	106	2.8	93	100	7.3	70 - 130	30	
1,1,1-Trichloroethane	ND	250	106	105	0.9	104	106	1.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	101	100	1.0	103	102	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	250	100	100	0.0	101	100	1.0	70 - 130	30	
1,1-Dichloroethane	ND	250	111	113	1.8	114	111	2.7	70 - 130	30	
1,1-Dichloroethene	ND	250	102	100	2.0	105	104	1.0	70 - 130	30	
1,1-Dichloropropene	ND	250	112	108	3.6	114	111	2.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	107	107	0.0	105	107	1.9	70 - 130	30	
1,2,3-Trichloropropane	ND	250	101	98	3.0	102	99	3.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	104	103	1.0	101	102	1.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	105	102	2.9	105	104	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	120	117	2.5	101	105	3.9	70 - 130	30	
1,2-Dibromoethane	ND	250	104	102	1.9	104	103	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	250	105	105	0.0	107	105	1.9	70 - 130	30	
1,2-Dichloroethane	ND	250	104	103	1.0	107	106	0.9	70 - 130	30	
1,2-Dichloropropane	ND	250	105	103	1.9	108	106	1.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	110	107	2.8	111	109	1.8	70 - 130	30	
1,3-Dichlorobenzene	ND	250	105	103	1.9	105	105	0.0	70 - 130	30	
1,3-Dichloropropane	ND	250	104	102	1.9	106	105	0.9	70 - 130	30	
1,4-Dichlorobenzene	ND	250	105	104	1.0	107	105	1.9	70 - 130	30	
2,2-Dichloropropane	ND	250	114	112	1.8	102	107	4.8	70 - 130	30	
2-Chlorotoluene	ND	250	108	106	1.9	110	110	0.0	70 - 130	30	
2-Hexanone	ND	1300	95	97	2.1	104	98	5.9	70 - 130	30	
2-Isopropyltoluene	ND	250	110	106	3.7	111	110	0.9	70 - 130	30	
4-Chlorotoluene	ND	250	106	106	0.0	108	106	1.9	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	96	96	0.0	101	99	2.0	70 - 130	30	
Acetone	ND	500	76	81	6.4	80	75	6.5	70 - 130	30	
Acrylonitrile	ND	250	104	109	4.7	116	111	4.4	70 - 130	30	
Benzene	ND	250	105	102	2.9	106	104	1.9	70 - 130	30	
Bromobenzene	ND	250	108	107	0.9	110	108	1.8	70 - 130	30	
Bromochloromethane	ND	250	101	99	2.0	103	101	2.0	70 - 130	30	
Bromodichloromethane	ND	250	103	101	2.0	93	97	4.2	70 - 130	30	
Bromoform	ND	250	98	95	3.1	76	83	8.8	70 - 130	30	
Bromomethane	ND	250	70	71	1.4	65	70	7.4	70 - 130	30 m	
Carbon Disulfide	ND	250	93	90	3.3	88	89	1.1	70 - 130	30	
Carbon tetrachloride	ND	250	105	103	1.9	83	93	11.4	70 - 130	30	
Chlorobenzene	ND	250	104	101	2.9	106	105	0.9	70 - 130	30	
Chloroethane	ND	250	24	25	4.1	26	25	3.9	70 - 130	30 l,m	
Chloroform	ND	250	93	100	7.3	103	95	8.1	70 - 130	30	
Chloromethane	ND	250	98	97	1.0	100	97	3.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	106	106	0.0	110	108	1.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	108	106	1.9	99	102	3.0	70 - 130	30	
Dibromochloromethane	ND	150	103	101	2.0	86	92	6.7	70 - 130	30	
Dibromomethane	ND	250	105	105	0.0	105	103	1.9	70 - 130	30	
Dichlorodifluoromethane	ND	250	87	86	1.2	86	83	3.6	70 - 130	30	
Ethylbenzene	ND	250	105	101	3.9	107	105	1.9	70 - 130	30	
Hexachlorobutadiene	ND	250	113	111	1.8	111	111	0.0	70 - 130	30	
Isopropylbenzene	ND	250	113	109	3.6	113	113	0.0	70 - 130	30	
m&p-Xylene	ND	250	104	100	3.9	104	103	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Methyl ethyl ketone	ND	250	92	96	4.3	99	98	1.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	97	99	2.0	99	97	2.0	70 - 130	30
Methylene chloride	ND	250	93	93	0.0	94	93	1.1	70 - 130	30
Naphthalene	ND	250	111	110	0.9	108	109	0.9	70 - 130	30
n-Butylbenzene	ND	250	117	114	2.6	117	117	0.0	70 - 130	30
n-Propylbenzene	ND	250	112	109	2.7	115	114	0.9	70 - 130	30
o-Xylene	ND	250	103	100	3.0	104	104	0.0	70 - 130	30
p-Isopropyltoluene	ND	250	113	110	2.7	114	113	0.9	70 - 130	30
sec-Butylbenzene	ND	250	112	109	2.7	113	112	0.9	70 - 130	30
Styrene	ND	250	100	98	2.0	103	102	1.0	70 - 130	30
tert-Butylbenzene	ND	250	111	109	1.8	111	111	0.0	70 - 130	30
Tetrachloroethene	ND	250	112	107	4.6	114	113	0.9	70 - 130	30
Tetrahydrofuran (THF)	ND	250	97	99	2.0	105	99	5.9	70 - 130	30
Toluene	ND	250	106	103	2.9	107	107	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	250	100	100	0.0	103	101	2.0	70 - 130	30
trans-1,3-Dichloropropene	ND	250	110	107	2.8	96	102	6.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	115	113	1.8	94	99	5.2	70 - 130	30
Trichloroethene	ND	250	108	104	3.8	109	107	1.9	70 - 130	30
Trichlorofluoromethane	ND	250	23	28	19.6	51	53	3.8	70 - 130	30
Trichlorotrifluoroethane	ND	250	95	93	2.1	96	95	1.0	70 - 130	30
Vinyl chloride	ND	250	88	88	0.0	94	89	5.5	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	101	102	1.0	102	103	1.0	70 - 130	30
% Bromofluorobenzene	98	%	98	98	0.0	99	98	1.0	70 - 130	30
% Dibromofluoromethane	99	%	98	101	3.0	103	102	1.0	70 - 130	30
% Toluene-d8	94	%	102	102	0.0	101	101	0.0	70 - 130	30

l,m

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 676799 (ug/kg), QC Sample No: CN99857 (CN97929, CN97935, CN97936, CN97937, CN97938, CN97939)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	106	101	4.8	97	100	3.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	102	96	6.1	94	100	6.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	99	96	3.1	99	108	8.7	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	101	98	3.0	97	99	2.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	100	95	5.1	96	102	6.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	93	86	7.8	85	90	5.7	70 - 130	30
1,1-Dichloropropene	ND	5.0	104	97	7.0	97	101	4.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	95	91	4.3	53	52	1.9	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	114	89	24.6	91	<10	NC	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	92	89	3.3	56	55	1.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	95	7.1	87	93	6.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	106	103	2.9	96	103	7.0	70 - 130	30
1,2-Dibromoethane	ND	5.0	106	102	3.8	99	103	4.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	99	93	6.3	79	85	7.3	70 - 130	30
1,2-Dichloroethane	ND	5.0	98	94	4.2	92	95	3.2	70 - 130	30
1,2-Dichloropropane	ND	5.0	100	96	4.1	98	101	3.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	103	96	7.0	89	96	7.6	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	98	91	7.4	80	85	6.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	104	101	2.9	101	105	3.9	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	97	90	7.5	79	85	7.3	70 - 130	30
2,2-Dichloropropane	ND	5.0	101	96	5.1	94	100	6.2	70 - 130	30
2-Chlorotoluene	ND	5.0	103	97	6.0	90	98	8.5	70 - 130	30

m

m

m

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
2-Hexanone	ND	25	97	97	0.0	82	74	10.3	70 - 130	30
2-Isopropyltoluene	ND	5.0	103	96	7.0	85	90	5.7	70 - 130	30
4-Chlorotoluene	ND	5.0	100	94	6.2	87	95	8.8	70 - 130	30
4-Methyl-2-pentanone	ND	25	97	97	0.0	94	91	3.2	70 - 130	30
Acetone	ND	10	83	82	1.2	78	81	3.8	70 - 130	30
Acrylonitrile	ND	5.0	97	96	1.0	94	94	0.0	70 - 130	30
Benzene	ND	1.0	104	99	4.9	99	102	3.0	70 - 130	30
Bromobenzene	ND	5.0	102	97	5.0	92	100	8.3	70 - 130	30
Bromochloromethane	ND	5.0	102	99	3.0	97	101	4.0	70 - 130	30
Bromodichloromethane	ND	5.0	102	98	4.0	95	98	3.1	70 - 130	30
Bromoform	ND	5.0	110	104	5.6	93	98	5.2	70 - 130	30
Bromomethane	ND	5.0	93	90	3.3	90	91	1.1	70 - 130	30
Carbon Disulfide	ND	5.0	87	81	7.1	77	81	5.1	70 - 130	30
Carbon tetrachloride	ND	5.0	100	97	3.0	92	100	8.3	70 - 130	30
Chlorobenzene	ND	5.0	101	96	5.1	91	96	5.3	70 - 130	30
Chloroethane	ND	5.0	90	85	5.7	82	89	8.2	70 - 130	30
Chloroform	ND	5.0	99	95	4.1	95	100	5.1	70 - 130	30
Chloromethane	ND	5.0	97	92	5.3	90	96	6.5	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	103	99	4.0	99	104	4.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	104	100	3.9	97	99	2.0	70 - 130	30
Dibromochloromethane	ND	3.0	107	102	4.8	96	101	5.1	70 - 130	30
Dibromomethane	ND	5.0	102	97	5.0	97	100	3.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	95	89	6.5	87	92	5.6	70 - 130	30
Ethylbenzene	ND	1.0	104	99	4.9	94	99	5.2	70 - 130	30
Hexachlorobutadiene	ND	5.0	98	88	10.8	55	53	3.7	70 - 130	30 m
Isopropylbenzene	ND	1.0	106	99	6.8	96	106	9.9	70 - 130	30
m&p-Xylene	ND	2.0	104	98	5.9	92	96	4.3	70 - 130	30
Methyl ethyl ketone	ND	5.0	93	92	1.1	88	91	3.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	96	94	2.1	96	99	3.1	70 - 130	30
Methylene chloride	ND	5.0	86	82	4.8	82	84	2.4	70 - 130	30
Naphthalene	ND	5.0	106	103	2.9	60	61	1.7	70 - 130	30 m
n-Butylbenzene	ND	1.0	100	92	8.3	78	80	2.5	70 - 130	30
n-Propylbenzene	ND	1.0	103	95	8.1	91	99	8.4	70 - 130	30
o-Xylene	ND	2.0	105	99	5.9	92	96	4.3	70 - 130	30
p-Isopropyltoluene	ND	1.0	104	96	8.0	85	89	4.6	70 - 130	30
sec-Butylbenzene	ND	1.0	105	97	7.9	88	93	5.5	70 - 130	30
Styrene	ND	5.0	102	97	5.0	87	91	4.5	70 - 130	30
tert-Butylbenzene	ND	1.0	106	100	5.8	93	98	5.2	70 - 130	30
Tetrachloroethene	ND	5.0	100	93	7.3	89	94	5.5	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	94	93	1.1	97	100	3.0	70 - 130	30
Toluene	ND	1.0	103	97	6.0	96	99	3.1	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	88	84	4.7	84	88	4.7	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	103	100	3.0	95	96	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	108	106	1.9	96	112	15.4	70 - 130	30
Trichloroethene	ND	5.0	102	96	6.1	93	97	4.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	93	87	6.7	84	89	5.8	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	85	79	7.3	76	81	6.4	70 - 130	30
Vinyl chloride	ND	5.0	94	89	5.5	89	95	6.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	96	%	99	99	0.0	97	95	2.1	70 - 130	30
% Dibromofluoromethane	98	%	100	100	0.0	99	100	1.0	70 - 130	30
% Toluene-d8	96	%	98	98	0.0	99	98	1.0	70 - 130	30

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Comment:											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.											
QA/QC Batch 676799H (ug/kg), QC Sample No: CN99857 50X (CN97930 (50X))											
<u>Volatiles - Soil (High Level)</u>											
1,1,1,2-Tetrachloroethane	ND	250	101	100	1.0	102	104	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	250	96	96	0.0	102	105	2.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	100	101	1.0	108	105	2.8	70 - 130	30	
1,1,2-Trichloroethane	ND	250	97	96	1.0	101	100	1.0	70 - 130	30	
1,1-Dichloroethane	ND	250	94	95	1.1	101	103	2.0	70 - 130	30	
1,1-Dichloroethene	ND	250	86	88	2.3	91	93	2.2	70 - 130	30	
1,1-Dichloropropene	ND	250	104	105	1.0	114	115	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	98	99	1.0	99	101	2.0	70 - 130	30	
1,2,3-Trichloropropane	ND	250	92	94	2.2	99	99	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	102	103	1.0	103	105	1.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	102	103	1.0	127	114	10.8	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	103	103	0.0	112	108	3.6	70 - 130	30	
1,2-Dibromoethane	ND	250	102	102	0.0	107	104	2.8	70 - 130	30	
1,2-Dichlorobenzene	ND	250	99	99	0.0	102	102	0.0	70 - 130	30	
1,2-Dichloroethane	ND	250	92	93	1.1	95	95	0.0	70 - 130	30	
1,2-Dichloropropane	ND	250	98	98	0.0	104	104	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	102	104	1.9	115	112	2.6	70 - 130	30	
1,3-Dichlorobenzene	ND	250	99	100	1.0	103	103	0.0	70 - 130	30	
1,3-Dichloropropane	ND	250	101	100	1.0	105	106	0.9	70 - 130	30	
1,4-Dichlorobenzene	ND	250	98	98	0.0	101	101	0.0	70 - 130	30	
2,2-Dichloropropane	ND	250	95	96	1.0	103	104	1.0	70 - 130	30	
2-Chlorotoluene	ND	250	102	102	0.0	108	109	0.9	70 - 130	30	
2-Hexanone	ND	1300	100	102	2.0	115	109	5.4	70 - 130	30	
2-Isopropyltoluene	ND	250	102	103	1.0	109	110	0.9	70 - 130	30	
4-Chlorotoluene	ND	250	101	102	1.0	106	108	1.9	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	96	98	2.1	110	105	4.7	70 - 130	30	
Acetone	ND	500	72	76	5.4	78	82	5.0	70 - 130	30	
Acrylonitrile	ND	250	91	94	3.2	105	103	1.9	70 - 130	30	
Benzene	ND	250	101	102	1.0	109	110	0.9	70 - 130	30	
Bromobenzene	ND	250	100	101	1.0	104	104	0.0	70 - 130	30	
Bromochloromethane	ND	250	94	95	1.1	97	98	1.0	70 - 130	30	
Bromodichloromethane	ND	250	96	96	0.0	96	98	2.1	70 - 130	30	
Bromoform	ND	250	101	100	1.0	98	99	1.0	70 - 130	30	
Bromomethane	ND	250	71	72	1.4	78	77	1.3	70 - 130	30	
Carbon Disulfide	ND	250	77	78	1.3	79	82	3.7	70 - 130	30	
Carbon tetrachloride	ND	250	92	96	4.3	95	103	8.1	70 - 130	30	
Chlorobenzene	ND	250	99	100	1.0	104	105	1.0	70 - 130	30	
Chloroethane	ND	250	38	38	0.0	41	41	0.0	70 - 130	30	
Chloroform	ND	250	93	94	1.1	99	101	2.0	70 - 130	30	
Chloromethane	ND	250	96	97	1.0	98	103	5.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	98	99	1.0	104	106	1.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	100	99	1.0	103	103	0.0	70 - 130	30	
Dibromochloromethane	ND	150	100	99	1.0	98	98	0.0	70 - 130	30	
Dibromomethane	ND	250	97	95	2.1	100	100	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	250	95	96	1.0	94	99	5.2	70 - 130	30	
Ethylbenzene	ND	250	103	103	0.0	111	113	1.8	70 - 130	30	
Hexachlorobutadiene	ND	250	104	105	1.0	111	112	0.9	70 - 130	30	

l,m

QA/QC Data

SDG I.D.: GCN97920

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Isopropylbenzene	ND	250	104	106	1.9	114	115	0.9	70 - 130	30
m&p-Xylene	ND	250	104	104	0.0	111	111	0.0	70 - 130	30
Methyl ethyl ketone	ND	250	86	91	5.6	105	93	12.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	90	90	0.0	93	93	0.0	70 - 130	30
Methylene chloride	ND	250	77	79	2.6	78	81	3.8	70 - 130	30
Naphthalene	ND	250	108	109	0.9	115	115	0.0	70 - 130	30
n-Butylbenzene	ND	250	105	108	2.8	115	116	0.9	70 - 130	30
n-Propylbenzene	ND	250	102	104	1.9	112	113	0.9	70 - 130	30
o-Xylene	ND	250	103	103	0.0	109	109	0.0	70 - 130	30
p-Isopropyltoluene	ND	250	105	107	1.9	115	115	0.0	70 - 130	30
sec-Butylbenzene	ND	250	105	107	1.9	114	116	1.7	70 - 130	30
Styrene	ND	250	101	101	0.0	104	105	1.0	70 - 130	30
tert-Butylbenzene	ND	250	104	105	1.0	112	114	1.8	70 - 130	30
Tetrachloroethene	ND	250	100	102	2.0	108	109	0.9	70 - 130	30
Tetrahydrofuran (THF)	ND	250	90	92	2.2	107	101	5.8	70 - 130	30
Toluene	ND	250	101	102	1.0	109	110	0.9	70 - 130	30
trans-1,2-Dichloroethene	ND	250	85	85	0.0	92	94	2.2	70 - 130	30
trans-1,3-Dichloropropene	ND	250	99	99	0.0	100	101	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	108	102	5.7	108	106	1.9	70 - 130	30
Trichloroethene	ND	250	99	100	1.0	106	108	1.9	70 - 130	30
Trichlorofluoromethane	ND	250	28	29	3.5	30	30	0.0	70 - 130	30 l,m
Trichlorotrifluoroethane	ND	250	82	82	0.0	88	89	1.1	70 - 130	30
Vinyl chloride	ND	250	92	93	1.1	104	100	3.9	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	99	98	1.0	100	98	2.0	70 - 130	30
% Bromofluorobenzene	95	%	99	99	0.0	98	98	0.0	70 - 130	30
% Dibromofluoromethane	92	%	96	95	1.0	95	95	0.0	70 - 130	30
% Toluene-d8	95	%	98	99	1.0	99	99	0.0	70 - 130	30

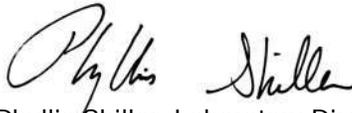
Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

- l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
- m = This parameter is outside laboratory MS/MSD specified recovery limits.
- r = This parameter is outside laboratory RPD specified recovery limits.
- s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 May 15, 2023

Monday, May 15, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN97920 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN97925	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC I/C (mg/kg) / APS Organics	ND	1400	820	820	ug/Kg
CN97925	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC I/C (mg/kg) / Volatiles	ND	710	67	67	ug/Kg
CN97925	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC RES (mg/kg) / APS Organics	ND	1400	90	90	ug/Kg
CN97925	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	710	7	7	ug/Kg
CN97925	\$8260MAR	Vinyl chloride	CT / RSR DEC RES (mg/kg) / Volatiles	ND	710	320	320	ug/Kg
CN97925	\$8260MAR	1,2,4-Trimethylbenzene	CT / RSR GB (mg/kg) / APS Organics	62000	7100	28000	28000	ug/Kg
CN97925	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	1400	40	40	ug/Kg
CN97925	\$8260MAR	Bromomethane	CT / RSR GB (mg/kg) / APS Organics	ND	2900	700	700	ug/Kg
CN97925	\$8260MAR	p-Isopropyltoluene	CT / RSR GB (mg/kg) / APS Organics	8300	7100	5000	5000	ug/Kg
CN97925	\$8260MAR	n-Propylbenzene	CT / RSR GB (mg/kg) / APS Organics	11000	7100	10000	10000	ug/Kg
CN97925	\$8260MAR	Bromodichloromethane	CT / RSR GB (mg/kg) / APS Organics	ND	1400	210	210	ug/Kg
CN97925	\$8260MAR	Tetrahydrofuran (THF)	CT / RSR GB (mg/kg) / APS Organics	ND	3600	800	800	ug/Kg
CN97925	\$8260MAR	Vinyl chloride	CT / RSR GB (mg/kg) / Volatiles	ND	710	400	400	ug/Kg
CN97925	\$8260MAR	Dibromochloromethane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	100	100	ug/Kg
CN97925	\$8260MAR	1,1,1,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	200	200	ug/Kg
CN97925	\$8260MAR	Tetrachloroethene	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN97925	\$8260MAR	Methylene chloride	CT / RSR GB (mg/kg) / Volatiles	ND	2900	1000	1000	ug/Kg
CN97925	\$8260MAR	Carbon tetrachloride	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN97925	\$8260MAR	Acrylonitrile	CT / RSR GB (mg/kg) / Volatiles	ND	710	100	100	ug/Kg
CN97925	\$8260MAR	1,2-Dibromoethane	CT / RSR GB (mg/kg) / Volatiles	ND	710	100	100	ug/Kg
CN97925	\$8260MAR	1,1,2,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	100	100	ug/Kg
CN97925	\$8260MAR	Bromoform	CT / RSR GB (mg/kg) / Volatiles	ND	1400	800	800	ug/Kg
CN97925	\$8260MAR	1,1,2-Trichloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN97925	\$8260MAR	1,2-Dichloropropane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN97925	\$8260MAR	Benzene	CT / RSR GB (mg/kg) / Volatiles	ND	710	200	200	ug/Kg
CN97925	\$8260MAR	1,2-Dichloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	710	200	200	ug/Kg
CN97925	\$8270-SMR	N-Nitrosodimethylamine	CT / RSR DEC I/C (mg/kg) / APS Organics	ND	400	360	360	ug/Kg
CN97925	\$8270-SMR	Benzidine	CT / RSR DEC I/C (mg/kg) / APS Organics	ND	800	200	200	ug/Kg
CN97925	\$8270-SMR	N-Nitrosodi-n-propylamine	CT / RSR DEC RES (mg/kg) / APS Organics	ND	400	200	200	ug/Kg
CN97925	\$8270-SMR	N-Nitrosodimethylamine	CT / RSR DEC RES (mg/kg) / APS Organics	ND	400	200	200	ug/Kg
CN97925	\$8270-SMR	Benzidine	CT / RSR DEC RES (mg/kg) / APS Organics	ND	800	200	200	ug/Kg
CN97925	\$8270-SMR	2-Methylnaphthalene	CT / RSR GB (mg/kg) / APS Organics	44000	7000	5600	5600	ug/Kg
CN97925	\$ETPH_SM	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	7500	600	2500	2500	mg/Kg
CN97925	\$ETPH_SM	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	7500	600	500	500	mg/Kg
CN97925	\$ETPH_SM	Ext. Petroleum H.C. (C9-C36)	CT / RSR GB (mg/kg) / Pesticides/TPH	7500	600	2500	2500	mg/Kg
CN97926	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC I/C (mg/kg) / APS Organics	ND	1400	820	820	ug/Kg
CN97926	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC I/C (mg/kg) / Volatiles	ND	700	67	67	ug/Kg
CN97926	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC RES (mg/kg) / APS Organics	ND	1400	90	90	ug/Kg
CN97926	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	700	7	7	ug/Kg
CN97926	\$8260MAR	Vinyl chloride	CT / RSR DEC RES (mg/kg) / Volatiles	ND	700	320	320	ug/Kg
CN97926	\$8260MAR	1,2,4-Trimethylbenzene	CT / RSR GB (mg/kg) / APS Organics	56000	7000	28000	28000	ug/Kg

Monday, May 15, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN97920 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN97926	\$8260MAR	Bromodichloromethane	CT / RSR GB (mg/kg) / APS Organics	ND	1400	210	210	ug/Kg
CN97926	\$8260MAR	Bromomethane	CT / RSR GB (mg/kg) / APS Organics	ND	2800	700	700	ug/Kg
CN97926	\$8260MAR	Tetrahydrofuran (THF)	CT / RSR GB (mg/kg) / APS Organics	ND	3500	800	800	ug/Kg
CN97926	\$8260MAR	p-Isopropyltoluene	CT / RSR GB (mg/kg) / APS Organics	7400	7000	5000	5000	ug/Kg
CN97926	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	1400	40	40	ug/Kg
CN97926	\$8260MAR	1,1,2-Trichloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN97926	\$8260MAR	Vinyl chloride	CT / RSR GB (mg/kg) / Volatiles	ND	700	400	400	ug/Kg
CN97926	\$8260MAR	1,2-Dibromoethane	CT / RSR GB (mg/kg) / Volatiles	ND	700	100	100	ug/Kg
CN97926	\$8260MAR	1,2-Dichloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	700	200	200	ug/Kg
CN97926	\$8260MAR	1,2-Dichloropropane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN97926	\$8260MAR	Acrylonitrile	CT / RSR GB (mg/kg) / Volatiles	ND	700	100	100	ug/Kg
CN97926	\$8260MAR	Benzene	CT / RSR GB (mg/kg) / Volatiles	ND	700	200	200	ug/Kg
CN97926	\$8260MAR	Bromoform	CT / RSR GB (mg/kg) / Volatiles	ND	1400	800	800	ug/Kg
CN97926	\$8260MAR	Carbon tetrachloride	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN97926	\$8260MAR	Dibromochloromethane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	100	100	ug/Kg
CN97926	\$8260MAR	Methylene chloride	CT / RSR GB (mg/kg) / Volatiles	ND	2800	1000	1000	ug/Kg
CN97926	\$8260MAR	Tetrachloroethene	CT / RSR GB (mg/kg) / Volatiles	ND	1400	1000	1000	ug/Kg
CN97926	\$8260MAR	1,1,2,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	100	100	ug/Kg
CN97926	\$8260MAR	1,1,1,2-Tetrachloroethane	CT / RSR GB (mg/kg) / Volatiles	ND	1400	200	200	ug/Kg
CN97926	\$8270-SMR	N-Nitrosodimethylamine	CT / RSR DEC I/C (mg/kg) / APS Organics	ND	400	360	360	ug/Kg
CN97926	\$8270-SMR	Benzidine	CT / RSR DEC I/C (mg/kg) / APS Organics	ND	800	200	200	ug/Kg
CN97926	\$8270-SMR	Benzidine	CT / RSR DEC RES (mg/kg) / APS Organics	ND	800	200	200	ug/Kg
CN97926	\$8270-SMR	N-Nitrosodimethylamine	CT / RSR DEC RES (mg/kg) / APS Organics	ND	400	200	200	ug/Kg
CN97926	\$8270-SMR	N-Nitrosodi-n-propylamine	CT / RSR DEC RES (mg/kg) / APS Organics	ND	400	200	200	ug/Kg
CN97926	\$8270-SMR	2-Methylnaphthalene	CT / RSR GB (mg/kg) / APS Organics	45000	7000	5600	5600	ug/Kg
CN97926	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	8400	600	2500	2500	mg/Kg
CN97926	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	8400	600	500	500	mg/Kg
CN97926	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GB (mg/kg) / Pesticides/TPH	8400	600	2500	2500	mg/Kg
CN97928	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	29	7	7	ug/Kg
CN97928	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	59	40	40	ug/Kg
CN97930	\$8260MER	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	25	7	7	ug/Kg
CN97930	\$8260MER	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	50	40	40	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CN97920-CN97940

Sampling Date(s): 5/4/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Monday, May 15, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 15, 2023

SDG I.D.: GCN97920

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Not all requested reporting levels were achieved due to the presence of target and non target compounds. Please refer to the Sample Criteria Exceedances section of this report.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677077 (Samples: CN97924, CN97925, CN97926, CN97927, CN97928, CN97931, CN97932, CN97933, CN97934, CN97935, CN97936, CN97937, CN97938, CN97939, CN97940): -----

One of the blank surrogate was below criteria. A low bias is possible. (% COD (surr)(CN97940))

Instrument:

AU-FID11 05/12/23-1 Jeff Bucko, Chemist 05/12/23

CN97925 (10X), CN97926 (10X)

The initial calibration (ETPH510I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (512A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 05/10/23-1 Jeff Bucko, Chemist 05/10/23

CN97924 (1X), CN97927 (1X), CN97928 (1X), CN97931 (1X), CN97932 (1X), CN97933 (1X), CN97934 (1X), CN97935 (1X), CN97936 (1X), CN97937 (1X), CN97938 (1X), CN97939 (1X), CN97940 (1X)

The initial calibration (ETPH306I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (510A045_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 05/10/23-1 Jeff Bucko, Chemist 05/10/23

CN97920 (1X), CN97921 (1X), CN97922 (1X), CN97923 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (510A005_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 676854 (CN96576)

CN97920, CN97921, CN97922

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 15, 2023

SDG I.D.: GCN97920

ETPH Narration

Batch 677076 (CN99093)

CN97923

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

**The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within method criteria.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QC (Site Specific):

Batch 677077 (CN97940)

CN97924, CN97925, CN97926, CN97927, CN97928, CN97931, CN97932, CN97933, CN97934, CN97935, CN97936, CN97937, CN97938, CN97939, CN97940

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/05/23 15:37

Paul Marshall, Chemist 05/05/23

CN97925, CN97926, CN97940

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 676266 (CN97973)

CN97925, CN97926, CN97940

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.



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Mercury Narration

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 05/10/23 10:29 Tina Hall, Chemist 05/10/23

CN97920, CN97921, CN97923, CN97924, CN97925, CN97926, CN97927, CN97931, CN97933, CN97935, CN97937, CN97939, CN97940

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 676379 (CN97833)

CN97920, CN97921, CN97923, CN97924, CN97925, CN97926, CN97927, CN97931, CN97933, CN97935, CN97937, CN97939, CN97940

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD7 05/10/23-1 Saadia Chudary, Chemist 05/10/23

CN97925 (10X)

The initial calibration (PC0509AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0509BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

AU-ECD7 05/11/23-1 Saadia Chudary, Chemist 05/11/23

CN97926 (10X)

The initial calibration (PC0509AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0509BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

QC (Batch Specific):

Batch 676899 (CO01062)

CN97925

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.



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SDG I.D.: GCN97920

PCB Narration

Batch 677086 (CN98245)

CN97926

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676950 (Samples: CN97925, CN97926): -----

Several QC recoveries are below the lower range. A low bias is possible. (3-Nitroaniline, 4-Chloroaniline)

Several QC recoveries are below the method criteria. A low bias is possible. (Aniline, Benzidine, Pyridine)

The LCS/LCSD recovery for one or more analytes is below the lower range. A low bias for these analytes is possible. (3,3"-Dichlorobenzidine, N-Nitrosodimethylamine)

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (1,3-Dichlorobenzene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (3,3"-Dichlorobenzidine, 3-Nitroaniline)

Instrument:

CHEM06 05/11/23-1 Adam Werner, Chemist 05/11/23

CN97925 (5X, 25X), CN97926 (5X, 25X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0509):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.051 (0.1), Hexachlorobenzene 0.088 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0511_03-6_SPLIT_0509):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.057 (0.1), Hexachlorobenzene 0.081 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM19 05/11/23-1 Matt Richard, Chemist 05/11/23



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SDG I.D.: GCN97920

SVOA Narration

CN97924 (1X), CN97927 (1X), CN97931 (1X), CN97933 (1X), CN97935 (1X), CN97937 (1X), CN97939 (1X), CN97940 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0511_03-19_BN_0419):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM28 05/10/23-1

Matt Richard, Chemist 05/10/23

CN97920 (1X), CN97921 (1X), CN97923 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_BN_0504):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0510_06-28_BN_0504):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 676950 (CN97966)

CN97925, CN97926

All LCS recoveries were within 40 - 140 with the following exceptions: 1,3-Dichlorobenzene(39%), 3,3'-Dichlorobenzidine(36%), 3-Nitroaniline(24%), 4-Chloroaniline(15%), Aniline(<10%), Benzidine(<10%), N-Nitrosodimethylamine(33%), Pyridine(32%)

All LCSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(25%), 3-Nitroaniline(11%), 4-Chloroaniline(<10%), Aniline(<10%), Benzidine(<10%), N-Nitrosodimethylamine(37%), Pyridine(31%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: 3,3'-Dichlorobenzidine(36.1%), 3-Nitroaniline(74.3%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid



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SVOA Narration

surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 677148 (CN97781)

CN97920, CN97921, CN97923

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 677185 (CN97939)

CN97924, CN97927, CN97931, CN97933, CN97935, CN97937, CN97939, CN97940

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration



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VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676791H: -----

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 676799H: -----

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 676806 (Samples: CN97920, CN97921, CN97923, CN97924, CN97931, CN97932, CN97933, CN97934): -----

The LCS/LCSD recovery is below the lower range, the site MS is above criteria. A slight low bias is possible. (Acetone)

The CSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (1,2-Dibromo-3-chloropropane)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is possible. (1,1-Dichloroethane, Acrylonitrile, Bromomethane, Carbon Disulfide, Chloroethane, Methyl ethyl ketone, Methyl t-butyl ether (MTBE), Tetrahydrofuran (THF), Vinyl chloride)

QC Batch 677057 (Samples: CN97922, CN97927): -----

The MSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (Acetone)

The MS/MSD RPD exceeds the method criteria for one analyte, therefore there may be variability in the reported result. (Acetone)

Instrument:

CHEM03 05/08/23-2

Jane Li, Chemist 05/08/23

CN97929 (1X), CN97930 (50X), CN97935 (1X), CN97936 (1X), CN97937 (1X), CN97938 (1X), CN97939 (1X)

Initial Calibration Evaluation (CHEM03/VT-L042823):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 21% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0508_36-VT-L042823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM18 05/08/23-3

Jane Li, Chemist 05/08/23

CN97925 (1000X), CN97926 (1000X), CN97927 (50X), CN97928 (50X)



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SDG I.D.: GCN97920

VOA Narration

Initial Calibration Evaluation (CHEM18/VT-M050823):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Acetone 21% (20%), trans-1,4-dichloro-2-butene 31% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM18/0508_18-VT-M050823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM18 05/09/23-1

Jane Li, Chemist 05/09/23

CN97922 (1X, 50X), CN97927 (1X)

Initial Calibration Evaluation (CHEM18/VT-M050823):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Acetone 21% (20%), trans-1,4-dichloro-2-butene 31% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM18/0509_02-VT-M050823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/08/23-1

Jane Li, Chemist 05/08/23

CN97920 (1X, 50X), CN97921 (1X), CN97923 (1X), CN97924 (1X), CN97931 (1X), CN97932 (1X), CN97933 (1X), CN97934 (1X)

Initial Calibration Evaluation (CHEM31/VT-L050123):

91% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 28% (20%), Acetone 24% (20%), Bromoform 27% (20%), Bromomethane 23% (20%), Chloroethane 28% (20%), Dibromochloromethane 21% (20%), Naphthalene 21% (20%), trans-1,3-Dichloropropene 27% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.081 (0.1), Bromoform 0.087 (0.1), Tetrachloroethene 0.145 (0.2), Trichloroethene 0.198 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0508_02-VT-L050123):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 1,2-Dibromo-3-chloropropane 31%H (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 676791H (CN99851)

CHEM18 5/8/2023-3

CN97925(1000X), CN97926(1000X), CN97927(50X), CN97928(50X)



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VOA Narration

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(24%), Trichlorofluoromethane(23%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(28%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676799 (CN99857) CHEM03 5/8/2023-2

CN97929(1X), CN97935(1X), CN97936(1X), CN97937(1X), CN97938(1X), CN97939(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 676799H (CN99857) CHEM03 5/8/2023-2

CN97930(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(38%), Trichlorofluoromethane(28%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(38%), Trichlorofluoromethane(29%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QC (Site Specific):

Batch 676806 (CN97920) CHEM31 5/8/2023-1

CN97920(1X), CN97921(1X), CN97923(1X), CN97924(1X), CN97931(1X), CN97932(1X), CN97933(1X), CN97934(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(66%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 1,2-Dibromo-3-chloropropane(133%), Acetone(68%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethane(69%), Acetone(135%), Acrylonitrile(60%), Bromomethane(64%), Carbon Disulfide(65%), Chloroethane(67%), Methyl ethyl ketone(67%), Methyl t-butyl ether (MTBE)(68%), Tetrahydrofuran (THF)(62%), Vinyl chloride(68%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

The MSD is not reported for this LL soil batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677057 (CN97922) CHEM18 5/9/2023-1

CN97922(1X), CN97927(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(155%)
All MS/MSD RPDs were less than 30% with the following exceptions: Acetone(50.0%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-



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VOA Narration

160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 2.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes No
 WC Coolant: IPK ICE

Temp 27 °C Pg 1 of 2

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/4/23
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X=(Other)

PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT/ETPH (DPH METHOD)	VOCs (EPA 8260/5035)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total PCBRA B Metals	Total RSP 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) Methanol (2) H2O	GL Soil container (&) oz	40 ml VOA Vial () oz	GL Amber 1000ml () As is () HCl	PL As is () 250ml () 500ml () 1000ml	PL H2SO4 () 250ml () 500ml () 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle with	Bacteria Bottle as is	Hold	
97920	B-30(13-15)	S	5/4/23	0915	X	X		X		X					3	1											
97921	DUP-4	S	5/4/23	0916	X	X		X		X					3	1											
97922	B-31(12-14)	S	5/4/23	0755	X	X									3	1											
97923	B-34(10-12)	S	5/4/23	0835	X	X		X		X					3	1											
97924	B-42(8-10)	S	5/4/23	1320	X	X		X		X					3	1											
97925	B-44(3-5)	S	5/4/23	1150	X	X	X		X			X			3	1											
97926	DUP-5	S	5/4/23	1151	X	X	X		X			X			3	1											
97927	B-44(10-12)	S	5/4/23	1155	X	X		X		X					3	1											
97928	B-45(6-8)	S	5/4/23	1220	X	X									3	1											
97929	B-43(1)																										
97929	TB050422L					X									2	2											
97930	TB050422H					X									1												

Relinquished by: [Signature] Accepted by: [Signature] Date: 5/4/23 Time: 15:13
5/4/23 15:55
 Comments, Special Requirements or Regulations:
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other
 *SURCHARGE APPLIES

RI
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

State where samples were collected: CT

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

* SURCHARGE APPLIES

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040

Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Cooler: Yes No
 Coolant: IPK ICE

Temp 22 °C Pg 2 of 2

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/4/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT EPH (DPH METHOD)	VOCs (EPA 8260/8035)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total PCRA 8 Metals	Total R59 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) Methanol (2) H2O	GL Soil container (8) oz	40 ml VOA container (8) oz	GL Amber 1000ml (1) As is (1) HCl	PL As is (1) 250ml (1) 500ml (1) 1000ml	PL H2SO4 (1) 250ml (1) 500ml	PL HNO3 250ml	Bacteria Bottle white	Bacteria Bottle as is	Hold	
97931	B-49 (10-12)	S	5/4/23	1125	X	X		X		X					3	1										
97932	B-50 (10-12)	S	5/4/23	0755	X	X									3	1										
97933	B-51 (10-12)	S	5/4/23	1100	X	X		X		X					3	1										
97934	B-52 (8-10)	S	5/4/23	0915	X	X									3	1										
97935	B-53 (10-12)	S	5/4/23	1045	X	X		X		X					3	1										
97936	B-54 (10-12)	S	5/4/23	0935	X	X									3	1										
97937	B-55 (10-12)	S	5/4/23	1015	X	X		X		X					3	1										
97938	B-56 (10-12)	S	5/4/23	0955	X	X									3	1										
97939	B-94 (0-2)	S	5/4/23	1355	X	X		X		X					3	1										
97940	B-106	S	5/4/23												3	1										
97940	B-107 (0.5-2.5)	S	5/4/23	1415	X			X	X						1											

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 5/4/23 Time: 1513
5/4/23 1535

- RI**
- (Residential) Direct Exposure
 - (Comm/Industrial) Direct Exposure
 - GA Leachability
 - GB Leachability
 - GA-GW Objectives
 - GB-GW Objectives

- CT**
- RCP Cert
 - GW Protection
 - SW Protection
 - GA Mobility
 - GA Leachability
 - GB Mobility
 - Residential DEC
 - I/C DEC
 - Other

- MA**
- MCP Certification
 - GW-1 MWRA eSMART
 - GW-2 S-1 10% CALC
 - GW-3
 - S-1 GW-1 S-1 GW-2 S-1 GW-3
 - S-2 GW-1 S-2 GW-2 S-2 GW-3
 - S-3 GW-1 S-3 GW-2 S-3 GW-3
 - SW Protection

- Data Format**
- Excel
 - PDF
 - GIS/Key
 - EQUIS
 - Other-Envirodata
- Data Package**
- Tier II Checklist
 - Full Data Package*
 - Phoenix Std Report
 - Other

Comments, Special Requirements or Regulations: _____

Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other _____

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.
 * SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES



Tuesday, May 30, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCN98846
Sample ID#s: CN98846 - CN98867

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 30, 2023

SDG I.D.: GCN98846

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-35 (11-13)	CN98846	SOIL
DUP-6	CN98847	SOIL
B-36 (10-12)	CN98848	SOIL
B-37 (10-12)	CN98849	SOIL
B-38 (10-12)	CN98850	SOIL
B-39 (10-12)	CN98851	SOIL
B-40 (5-7)	CN98852	SOIL
B-40 (10-12)	CN98853	SOIL
B-41 (5-7)	CN98854	SOIL
B-41 (10-12)	CN98855	SOIL
B-86 (0-2)	CN98856	SOIL
B-32 (10-12)	CN98857	SOIL
B-33 (10-12)	CN98858	SOIL
B-85 (3-5)	CN98859	SOIL
B-106 (2-4)	CN98860	SOIL
B-109 (1-3)	CN98861	SOIL
B-110 (3-5)	CN98862	SOIL
B-111 (2-4)	CN98863	SOIL
B-109 GLYCOL (1-3)	CN98864	SOIL
B-110 GLYCOL (3-5)	CN98865	SOIL
TB050523L	CN98866	SOIL
TB050523H	CN98867	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/05/23
05/05/23

Time

12:30
15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98846

Project ID: BRAINARD AIRPORT
Client ID: B-35 (11-13)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	67		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	71		%	1	05/13/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/09/23	PS	SW8260C
1,1,1-Trichloroethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
1,1,2-Trichloroethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloroethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloroethene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloropropene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,2,3-Trichlorobenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,2,3-Trichloropropane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,2,4-Trichlorobenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,2,4-Trimethylbenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dibromo-3-chloropropane	ND	40	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dichlorobenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/09/23	PS	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,3,5-Trimethylbenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,3-Dichlorobenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,3-Dichloropropane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
1,4-Dichlorobenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
2,2-Dichloropropane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
2-Chlorotoluene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
2-Hexanone	ND	1200	ug/Kg	50	05/09/23	PS	SW8260C
2-Isopropyltoluene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
4-Chlorotoluene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
4-Methyl-2-pentanone	ND	1200	ug/Kg	50	05/09/23	PS	SW8260C
Acetone	ND	12000	ug/Kg	50	05/09/23	PS	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
Benzene	ND	200	ug/Kg	50	05/09/23	PS	SW8260C
Bromobenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Bromochloromethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/09/23	PS	SW8260C
Bromoform	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Bromomethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Carbon Disulfide	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Carbon tetrachloride	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Chlorobenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Chloroethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Chloroform	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Chloromethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
cis-1,2-Dichloroethene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
cis-1,3-Dichloropropene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
Dibromomethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Dichlorodifluoromethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Ethylbenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Hexachlorobutadiene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Isopropylbenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
m&p-Xylene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Methyl Ethyl Ketone	ND	1400	ug/Kg	50	05/09/23	PS	SW8260C
Methyl t-butyl ether (MTBE)	ND	480	ug/Kg	50	05/09/23	PS	SW8260C
Methylene chloride	ND	480	ug/Kg	50	05/09/23	PS	SW8260C
Naphthalene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
n-Butylbenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
n-Propylbenzene	200	190	ug/Kg	50	05/09/23	PS	SW8260C
o-Xylene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
p-Isopropyltoluene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
sec-Butylbenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Styrene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
tert-Butylbenzene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Tetrachloroethene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Tetrahydrofuran (THF)	ND	480	ug/Kg	50	05/09/23	PS	SW8260C
Toluene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Total Xylenes	ND	240	ug/Kg	50	05/09/23	PS	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
trans-1,3-Dichloropropene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
trans-1,4-dichloro-2-butene	ND	480	ug/Kg	50	05/09/23	PS	SW8260C
Trichloroethene	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Trichlorofluoromethane	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
Trichlorotrifluoroethane	ND	480	ug/Kg	50	05/09/23	PS	SW8260C
Vinyl chloride	ND	240	ug/Kg	50	05/09/23	PS	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/09/23	PS	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	05/09/23	PS	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	05/09/23	PS	70 - 130 %
% Toluene-d8 (50x)	72		%	50	05/09/23	PS	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date Time
05/05/23 12:31
05/05/23 15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98847

Project ID: BRAINARD AIRPORT
Client ID: DUP-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	50		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	53		%	1	05/13/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/09/23	PS	SW8260C
1,1,1-Trichloroethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
1,1,2-Trichloroethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloroethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloroethene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloropropene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,2,3-Trichlorobenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,2,3-Trichloropropane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,2,4-Trichlorobenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,2,4-Trimethylbenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dibromo-3-chloropropane	ND	40	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dichlorobenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/09/23	PS	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,3,5-Trimethylbenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,3-Dichlorobenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,3-Dichloropropane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
1,4-Dichlorobenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
2,2-Dichloropropane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
2-Chlorotoluene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
2-Hexanone	ND	1500	ug/Kg	50	05/09/23	PS	SW8260C
2-Isopropyltoluene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
4-Chlorotoluene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
4-Methyl-2-pentanone	ND	1500	ug/Kg	50	05/09/23	PS	SW8260C
Acetone	ND	15000	ug/Kg	50	05/09/23	PS	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
Benzene	ND	200	ug/Kg	50	05/09/23	PS	SW8260C
Bromobenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Bromochloromethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/09/23	PS	SW8260C
Bromoform	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Bromomethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Carbon Disulfide	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Carbon tetrachloride	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Chlorobenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Chloroethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Chloroform	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Chloromethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
cis-1,2-Dichloroethene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
cis-1,3-Dichloropropene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
Dibromomethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Dichlorodifluoromethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Ethylbenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Hexachlorobutadiene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Isopropylbenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
m&p-Xylene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Methyl Ethyl Ketone	ND	1800	ug/Kg	50	05/09/23	PS	SW8260C
Methyl t-butyl ether (MTBE)	ND	610	ug/Kg	50	05/09/23	PS	SW8260C
Methylene chloride	ND	610	ug/Kg	50	05/09/23	PS	SW8260C
Naphthalene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
n-Butylbenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
n-Propylbenzene	170	150	ug/Kg	50	05/09/23	PS	SW8260C
o-Xylene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
p-Isopropyltoluene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
sec-Butylbenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Styrene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
tert-Butylbenzene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Tetrachloroethene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Tetrahydrofuran (THF)	ND	610	ug/Kg	50	05/09/23	PS	SW8260C
Toluene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Total Xylenes	ND	310	ug/Kg	50	05/09/23	PS	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
trans-1,3-Dichloropropene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
trans-1,4-dichloro-2-butene	ND	610	ug/Kg	50	05/09/23	PS	SW8260C
Trichloroethene	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Trichlorofluoromethane	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
Trichlorotrifluoroethane	ND	610	ug/Kg	50	05/09/23	PS	SW8260C
Vinyl chloride	ND	310	ug/Kg	50	05/09/23	PS	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/09/23	PS	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	05/09/23	PS	70 - 130 %
% Dibromofluoromethane (50x)	88		%	50	05/09/23	PS	70 - 130 %
% Toluene-d8 (50x)	78		%	50	05/09/23	PS	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date Time
05/05/23 10:00
05/05/23 15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98848

Project ID: BRAINARD AIRPORT
Client ID: B-36 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.30	0.48	mg/Kg	1	05/09/23	TH	SW6010D
Percent Solid	70		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	86	mg/Kg	1	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	64		%	1	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	75		%	1	05/16/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.61	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	86		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/10/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	74		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/05/23
05/05/23

Time

9:05
15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98849

Project ID: BRAINARD AIRPORT
Client ID: B-37 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.27	0.41	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	75		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	83	mg/Kg	1	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	75		%	1	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	05/16/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.61	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.7	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	37	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	85		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	97		%	1	05/10/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	80		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	84		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	78		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date Time
 05/05/23 9:25
 05/05/23 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98850

Project ID: BRAINARD AIRPORT
 Client ID: B-38 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.36	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	72		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	57		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	63		%	1	05/13/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.60	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	87		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	97		%	1	05/10/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	76		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	72		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/05/23
05/05/23

Time

8:40
15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98851

Project ID: BRAINARD AIRPORT
Client ID: B-39 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.55	0.44	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	71		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	88	mg/Kg	1	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	67		%	1	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	79		%	1	05/16/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.98	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	49	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	49	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	490	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	59	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	20	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	20	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	20	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	9.8	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	85		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/10/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	330	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	72		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	75		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	68		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/05/23
05/05/23

Time

8:20
15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98852

Project ID: BRAINARD AIRPORT
Client ID: B-40 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	73		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.59	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrahydrofuran (THF)	12	12	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/Kg	1	05/10/23	JLI	SW8260C

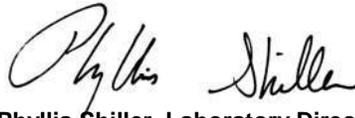
QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	98		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	88		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/10/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/05/23
 05/05/23

Time

8:21
 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98853

Project ID: BRAINARD AIRPORT
 Client ID: B-40 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	4.74	0.40	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	75		%		05/05/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	50		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	54		%	1	05/13/23	JRB	50 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D

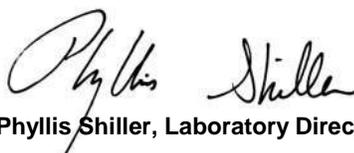
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	72		%	1	05/12/23	RM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/05/23
 05/05/23

Time

7:55
 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98854

Project ID: BRAINARD AIRPORT
 Client ID: B-41 (5-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/09/23	PS	SW8260C
1,1,1-Trichloroethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
1,1,2-Trichloroethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloroethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloroethene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,1-Dichloropropene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,2,3-Trichlorobenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,2,3-Trichloropropane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,2,4-Trichlorobenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,2,4-Trimethylbenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dibromo-3-chloropropane	ND	40	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dichlorobenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/09/23	PS	SW8260C
1,2-Dichloropropane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,3,5-Trimethylbenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,3-Dichlorobenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,3-Dichloropropane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
1,4-Dichlorobenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
2,2-Dichloropropane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
2-Chlorotoluene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
2-Hexanone	ND	1800	ug/Kg	50	05/09/23	PS	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
4-Chlorotoluene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
4-Methyl-2-pentanone	ND	1800	ug/Kg	50	05/09/23	PS	SW8260C
Acetone	ND	18000	ug/Kg	50	05/09/23	PS	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
Benzene	ND	200	ug/Kg	50	05/09/23	PS	SW8260C
Bromobenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Bromochloromethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/09/23	PS	SW8260C
Bromoform	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Bromomethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Carbon Disulfide	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Carbon tetrachloride	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Chlorobenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Chloroethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Chloroform	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Chloromethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
cis-1,2-Dichloroethene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
cis-1,3-Dichloropropene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/09/23	PS	SW8260C
Dibromomethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Dichlorodifluoromethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Ethylbenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Hexachlorobutadiene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Isopropylbenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
m&p-Xylene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Methyl Ethyl Ketone	ND	2100	ug/Kg	50	05/09/23	PS	SW8260C
Methyl t-butyl ether (MTBE)	ND	710	ug/Kg	50	05/09/23	PS	SW8260C
Methylene chloride	ND	710	ug/Kg	50	05/09/23	PS	SW8260C
Naphthalene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
n-Butylbenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
n-Propylbenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
o-Xylene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
p-Isopropyltoluene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
sec-Butylbenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Styrene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
tert-Butylbenzene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Tetrachloroethene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Tetrahydrofuran (THF)	ND	710	ug/Kg	50	05/09/23	PS	SW8260C
Toluene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Total Xylenes	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
trans-1,2-Dichloroethene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
trans-1,3-Dichloropropene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
trans-1,4-dichloro-2-butene	ND	710	ug/Kg	50	05/09/23	PS	SW8260C
Trichloroethene	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Trichlorofluoromethane	ND	350	ug/Kg	50	05/09/23	PS	SW8260C
Trichlorotrifluoroethane	ND	710	ug/Kg	50	05/09/23	PS	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/09/23	PS	SW8260C

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/09/23	PS	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	05/09/23	PS	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	05/09/23	PS	70 - 130 %
% Toluene-d8 (50x)	92		%	50	05/09/23	PS	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

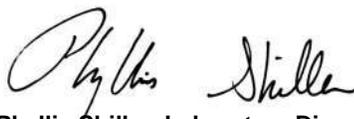
Comments:

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date Time
05/05/23 7:56
05/05/23 15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98855

Project ID: BRAINARD AIRPORT
Client ID: B-41 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.50	0.46	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	74		%		05/05/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH
QA/QC Surrogates							
% COD (surr)	52		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	66		%	1	05/13/23	JRB	50 - 150 %

Polynuclear Aromatic HC

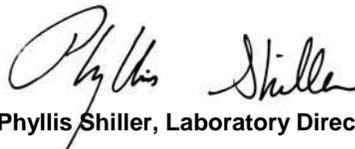
2-Methylnaphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	78		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	70		%	1	05/12/23	RM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date Time
05/05/23 9:45
05/05/23 15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98856

Project ID: BRAINARD AIRPORT
Client ID: B-86 (0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Arsenic	3.62	0.84	mg/Kg	1	05/08/23	TH	SW6010D
Barium	67.4	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Beryllium	0.45	0.34	mg/Kg	1	05/08/23	TH	SW6010D
Cadmium	1.42	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Chromium	26.9	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Copper	24.1	0.8	mg/kg	1	05/08/23	TH	SW6010D
Mercury	0.07	0.03	mg/Kg	2	05/09/23	PM	SW7471B
Nickel	24.8	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Lead	12.3	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	05/08/23	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	05/08/23	TH	SW6010D
Thallium	< 3.8	3.8	mg/Kg	1	05/08/23	TH	SW6010D
Vanadium	30.8	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Zinc	61.5	0.8	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	80		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Mercury Digestion	Completed				05/08/23	AL/Z	SW7471B
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Soil Extraction for PCB	Completed				05/11/23	C/M	SW3545A
Soil Extraction for SVOA	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	55		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	60		%	1	05/13/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	05/12/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	72		%	10	05/12/23	SC	30 - 150 %
% DCBP (Confirmation)	70		%	10	05/12/23	SC	30 - 150 %
% TCMX	70		%	10	05/12/23	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	05/12/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.51	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	5.1	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	88		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/10/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2,4-Dichlorophenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2,4-Dimethylphenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2,4-Dinitrophenol	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2-Chloronaphthalene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2-Chlorophenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2-Methylnaphthalene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
2-Nitroaniline	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
2-Nitrophenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
3-Nitroaniline	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
4-Chloroaniline	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
4-Nitroaniline	ND	660	ug/Kg	1	05/12/23	KCA	SW8270D
4-Nitrophenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Acetophenone	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Aniline	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
Anthracene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/12/23	KCA	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Benzoic acid	ND	830	ug/Kg	1	05/12/23	KCA	SW8270D
Benzyl butyl phthalate	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
Carbazole	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
Chrysene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Dibenzofuran	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Diethyl phthalate	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Di-n-butylphthalate	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
Di-n-octylphthalate	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Fluorene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Hexachlorobenzene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Hexachlorobutadiene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Hexachloroethane	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Isophorone	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Nitrobenzene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/12/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/12/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
Pentachloronitrobenzene	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
Pentachlorophenol	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Phenol	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Pyrene	ND	290	ug/Kg	1	05/12/23	KCA	SW8270D
Pyridine	ND	420	ug/Kg	1	05/12/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	101		%	1	05/12/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	74		%	1	05/12/23	KCA	30 - 130 %
% 2-Fluorophenol	71		%	1	05/12/23	KCA	30 - 130 %
% Nitrobenzene-d5	73		%	1	05/12/23	KCA	30 - 130 %
% Phenol-d5	76		%	1	05/12/23	KCA	30 - 130 %
% Terphenyl-d14	77		%	1	05/12/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date Time

05/05/23 11:50
 05/05/23 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98857

Project ID: BRAINARD AIRPORT
 Client ID: B-32 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.13	0.46	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	71		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	70	mg/Kg	1	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	72		%	1	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	05/16/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.66	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	87		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/10/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	320	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	80		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	87		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	76		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/05/23
 05/05/23

Time

11:50
 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98858

Project ID: BRAINARD AIRPORT
 Client ID: B-33 (10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	69		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	71	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	55		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	65		%	1	05/13/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.64	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/10/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/05/23
 05/05/23

Time

11:50
 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98859

Project ID: BRAINARD AIRPORT
 Client ID: B-85 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.84	0.42	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	75		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/11/23	MO/F	SW3545A
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	69		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	76		%	1	05/13/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.64	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	6.4	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/10/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/12/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	82		%	1	05/12/23	RM	30 - 130 %
% Nitrobenzene-d5	87		%	1	05/12/23	RM	30 - 130 %
% Terphenyl-d14	79		%	1	05/12/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/05/23
 05/05/23

Time

11:50
 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98860

Project ID: BRAINARD AIRPORT
 Client ID: B-106 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/08/23	TH	SW6010D
Arsenic	1.81	0.79	mg/Kg	1	05/08/23	TH	SW6010D
Barium	35.3	0.39	mg/Kg	1	05/08/23	TH	SW6010D
Beryllium	< 0.32	0.32	mg/Kg	1	05/08/23	TH	SW6010D
Cadmium	0.80	0.39	mg/Kg	1	05/08/23	TH	SW6010D
Chromium	15.6	0.39	mg/Kg	1	05/08/23	TH	SW6010D
Copper	10.6	0.8	mg/kg	1	05/08/23	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/09/23	PM	SW7471B
Nickel	15.2	0.39	mg/Kg	1	05/08/23	TH	SW6010D
Lead	2.58	0.39	mg/Kg	1	05/08/23	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/08/23	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/08/23	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	05/08/23	TH	SW6010D
Vanadium	19.6	0.39	mg/Kg	1	05/08/23	TH	SW6010D
Zinc	37.1	0.8	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	88		%		05/05/23	CV	SW846-%Solid
Field Extraction	Completed				05/05/23		SW5035A
Mercury Digestion	Completed				05/08/23	11290900	SW7471B
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Soil Extraction for PCB	Completed				05/11/23	C/M	SW3545A
Soil Extraction for SVOA	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	55		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	59		%	1	05/13/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/12/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	62		%	10	05/12/23	SC	30 - 150 %
% DCBP (Confirmation)	60		%	10	05/12/23	SC	30 - 150 %
% TCMX	64		%	10	05/12/23	SC	30 - 150 %
% TCMX (Confirmation)	65		%	10	05/12/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.57	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
4-Chlorotoluene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/Kg	1	05/10/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/10/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/10/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2,4-Dinitrophenol	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
2-Nitroaniline	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
3-Nitroaniline	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	05/12/23	KCA	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Acetophenone	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Aniline	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
Anthracene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/12/23	KCA	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Benzoic acid	ND	740	ug/Kg	1	05/12/23	KCA	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
Carbazole	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
Chrysene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Di-n-butylphthalate	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Fluorene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Isophorone	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/12/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/12/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Phenol	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Pyrene	ND	260	ug/Kg	1	05/12/23	KCA	SW8270D
Pyridine	ND	370	ug/Kg	1	05/12/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	79		%	1	05/12/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	50		%	1	05/12/23	KCA	30 - 130 %
% 2-Fluorophenol	50		%	1	05/12/23	KCA	30 - 130 %
% Nitrobenzene-d5	52		%	1	05/12/23	KCA	30 - 130 %
% Phenol-d5	56		%	1	05/12/23	KCA	30 - 130 %
% Terphenyl-d14	55		%	1	05/12/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/05/23
 05/05/23

Time

11:50
 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98861

Project ID: BRAINARD AIRPORT
 Client ID: B-109 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.48	0.39	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	84		%		05/05/23	CV	SW846-%Solid
Extraction for SVOA SIM	Completed				05/05/23	C/Y	SW3545A
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	60		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	64		%	1	05/13/23	JRB	50 - 150 %

1,4-Dioxane

1,4-dioxane	ND	79	ug/Kg	1	05/08/23	KCA	SW8270D (SIM)
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QA/QC Surrogates

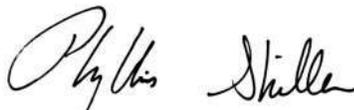
% 2-Fluorobiphenyl	53		%	1	05/08/23	KCA	30 - 130 %
% Nitrobenzene-d5	79		%	1	05/08/23	KCA	30 - 130 %
% Terphenyl-d14	75		%	1	05/08/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

05/05/23
 05/05/23

Time

11:50
 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98862

Project ID: BRAINARD AIRPORT
 Client ID: B-110 (3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	16.8	0.38	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	79		%		05/05/23	CV	SW846-%Solid
Extraction for SVOA SIM	Completed				05/05/23	C/Y	SW3545A
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	59		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	64		%	1	05/13/23	JRB	50 - 150 %

1,4-Dioxane

1,4-dioxane	ND	83	ug/Kg	1	05/08/23	PS	SW8270D (SIM)
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QA/QC Surrogates

% 2-Fluorobiphenyl	62		%	1	05/08/23	PS	30 - 130 %
% Nitrobenzene-d5	42		%	1	05/08/23	PS	30 - 130 %
% Terphenyl-d14	68		%	1	05/08/23	PS	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

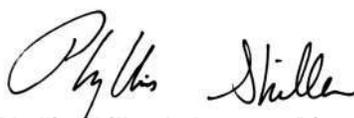
Comments:

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date Time
 05/05/23 11:50
 05/05/23 15:43

Laboratory Data

SDG ID: GCN98846
 Phoenix ID: CN98863

Project ID: BRAINARD AIRPORT
 Client ID: B-111 (2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.97	0.46	mg/Kg	1	05/08/23	TH	SW6010D
Percent Solid	77		%		05/05/23	CV	SW846-%Solid
Extraction for SVOA SIM	Completed				05/05/23	C/Y	SW3545A
Extraction of ETPH	Completed				05/11/23	MO/F	SW3546
Total Metals Digest	Completed				05/05/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/13/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/13/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	55		%	1	05/13/23	JRB	50 - 150 %
% Terphenyl (surr)	58		%	1	05/13/23	JRB	50 - 150 %

1,4-Dioxane

1,4-dioxane	ND	86	ug/Kg	1	05/08/23	KCA	SW8270D (SIM)
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QA/QC Surrogates

% 2-Fluorobiphenyl	41		%	1	05/08/23	KCA	30 - 130 %
% Nitrobenzene-d5	37		%	1	05/08/23	KCA	30 - 130 %
% Terphenyl-d14	73		%	1	05/08/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/05/23
05/05/23

Time

11:50
15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98864

Project ID: BRAINARD AIRPORT
Client ID: B-109 GLYCOL (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		05/05/23	CV	SW846-%Solid
<u>Glycols</u>							
Ethylene glycol	ND	13	mg/Kg	1	05/24/23	CK	SW8015D GLY
Propylene glycol	ND	13	mg/Kg	1	05/24/23	CK	SW8015D GLY
<u>QA/QC Surrogates</u>							
% DPG (surrogate)	83		%	1	05/24/23	CK	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date Time
05/05/23 11:50
05/05/23 15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98865

Project ID: BRAINARD AIRPORT
Client ID: B-110 GLYCOL (3-5)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Percent Solid, Glycols (Ethylene glycol, Propylene glycol), and QA/QC Surrogates (% DPG).

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Handwritten signature of Phyllis Shiller

Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/05/23
05/05/23

Time

11:50
15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98866

Project ID: BRAINARD AIRPORT
Client ID: TB050523L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/05/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/10/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/10/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/10/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/10/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/10/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	05/10/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	94		%	1	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	05/10/23	JLI	70 - 130 %
% Toluene-d8	97		%	1	05/10/23	JLI	70 - 130 %

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QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: B
Analyzed by: see "By" below

Date

05/05/23
05/05/23

Time

11:50
15:43

Laboratory Data

SDG ID: GCN98846
Phoenix ID: CN98867

Project ID: BRAINARD AIRPORT
Client ID: TB050523H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/05/23		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/10/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/10/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/10/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/10/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/10/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/10/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/10/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/10/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/10/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/10/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/10/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/10/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/10/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/10/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/10/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/10/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/10/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/10/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	96		%	50	05/10/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	05/10/23	JLI	70 - 130 %
% Toluene-d8 (50x)	96		%	50	05/10/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

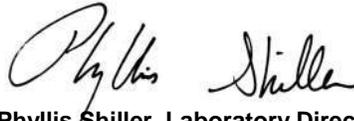
Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 30, 2023

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 676575 (mg/kg), QC Sample No: CN98897 2X (CN98856)

Mercury - Soil	BRL	0.03	0.04	0.04	NC	113	107	5.5	104	116	10.9	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 676613 (mg/kg), QC Sample No: CN99056 2X (CN98860)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	103	101	2.0	117	109	7.1	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 676473 (mg/kg), QC Sample No: CN98859 (CN98849, CN98850, CN98851, CN98853, CN98855, CN98856, CN98857, CN98859, CN98860, CN98861, CN98862, CN98863)

ICP Metals - Soil

Antimony	BRL	3.3	<4.2	<4.4	NC	104	106	1.9	83.8			75 - 125	35
Arsenic	BRL	0.67	2.82	2.90	NC	99.8	103	3.2	100			75 - 125	35
Barium	BRL	0.33	61.1	63.4	3.70	102	102	0.0	108			75 - 125	35
Beryllium	BRL	0.27	0.41	0.42	NC	101	105	3.9	96.4			75 - 125	35
Cadmium	BRL	0.33	1.27	1.32	NC	104	107	2.8	101			75 - 125	35
Chromium	BRL	0.33	23.6	24.3	2.90	105	108	2.8	103			75 - 125	35
Copper	BRL	0.67	18.1	19.2	5.90	100	105	4.9	101			75 - 125	35
Lead	BRL	0.33	5.84	6.36	8.50	95.6	97.4	1.9	101			75 - 125	35
Nickel	BRL	0.33	22.1	23.0	4.00	103	106	2.9	102			75 - 125	35
Selenium	BRL	1.3	<1.7	<1.8	NC	106	110	3.7	101			75 - 125	35
Silver	BRL	0.33	<0.42	<0.44	NC	97.5	99.7	2.2	98.5			75 - 125	35
Thallium	BRL	3.0	<3.7	<4.0	NC	101	104	2.9	97.4			75 - 125	35
Vanadium	BRL	0.33	27.4	28.1	2.50	103	108	4.7	104			75 - 125	35
Zinc	BRL	0.67	54.7	56.6	3.40	103	107	3.8	105			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 676470 (mg/kg), QC Sample No: CN99115 (CN98848)

ICP Metals - Soil

Lead	BRL	0.33	12.1	25.0	69.5	103	99.8	3.2	103			75 - 125	35	r
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

r = This parameter is outside laboratory RPD specified recovery limits.



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 Tel. (860) 645-1102

QA/QC Report

May 30, 2023

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 677309 (mg/Kg), QC Sample No: CN98478 (CN98846, CN98847, CN98850, CN98853, CN98855, CN98856, CN98858, CN98859, CN98860, CN98861, CN98862, CN98863)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	94	92	2.2	94	89	5.5	60 - 120	30
% COD (surr)	58	%	71	73	2.8	66	63	4.7	50 - 150	30
% Terphenyl (surr)	64	%	76	68	11.1	60	62	3.3	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 677757 (mg/Kg), QC Sample No: CO01131 (CN98848, CN98849, CN98851, CN98857)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	74	94	23.8	80	97	19.2	60 - 120	30
% COD (surr)	88	%	99	89	10.6	80	76	5.1	50 - 150	30
% Terphenyl (surr)	88	%	73	80	9.2	65	71	8.8	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 679263 (mg/kg), QC Sample No: CN98598 (CN98864, CN98865)

Glycols - Soil

Ethylene glycol	ND	10	109	122	11.3	84	82	2.4	70 - 130	30
Propylene glycol	ND	10	98	103	5.0	80	76	5.1	70 - 130	30
% DPG	101	%	111	120	7.8	87	83	4.7	70 - 130	30

QA/QC Batch 677368 (ug/Kg), QC Sample No: CO03260 2X (CN98856, CN98860)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	74	87	16.1	60	60	0.0	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	90	89	1.1	65	65	0.0	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	60	%	86	87	1.2	60	60	0.0	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	55	%	83	85	2.4	59	60	1.7	30 - 150	30
% TCMX (Surrogate Rec)	37	%	46	63	31.2	50	48	4.1	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	48	%	56	81	36.5	57	58	1.7	30 - 150	30

QA/QC Batch 677185 (ug/kg), QC Sample No: CN97939 (CN98848, CN98849, CN98850, CN98851, CN98853, CN98855, CN98857, CN98859)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	77	61	23.2	67	75	11.3	40 - 140	30
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QA/QC Data

SDG I.D.: GCN98846

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Acenaphthene	ND	230	76	64	17.1	68	74	8.5	30 - 130	30
Acenaphthylene	ND	230	72	60	18.2	66	70	5.9	40 - 140	30
Anthracene	ND	230	80	72	10.5	73	79	7.9	40 - 140	30
Benz(a)anthracene	ND	230	74	65	12.9	68	76	11.1	40 - 140	30
Benzo(a)pyrene	ND	230	99	80	21.2	79	87	9.6	40 - 140	30
Benzo(b)fluoranthene	ND	230	100	77	26.0	71	79	10.7	40 - 140	30
Benzo(ghi)perylene	ND	230	122	92	28.0	87	94	7.7	40 - 140	30
Benzo(k)fluoranthene	ND	230	90	70	25.0	64	69	7.5	40 - 140	30
Chrysene	ND	230	78	71	9.4	71	79	10.7	40 - 140	30
Dibenz(a,h)anthracene	ND	230	119	91	26.7	83	88	5.8	40 - 140	30
Fluoranthene	ND	230	78	69	12.2	70	82	15.8	40 - 140	30
Fluorene	ND	230	84	72	15.4	76	82	7.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	122	92	28.0	86	94	8.9	40 - 140	30
Naphthalene	ND	230	87	68	24.5	74	85	13.8	40 - 140	30
Phenanthrene	ND	230	81	72	11.8	73	84	14.0	40 - 140	30
Pyrene	ND	230	77	69	11.0	70	79	12.1	30 - 130	30
% 2-Fluorobiphenyl	65	%	71	58	20.2	63	69	9.1	30 - 130	30
% Nitrobenzene-d5	61	%	73	56	26.4	61	69	12.3	30 - 130	30
% Terphenyl-d14	68	%	73	63	14.7	65	67	3.0	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 677184 (ug/kg), QC Sample No: CN98856 (CN98856, CN98860)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	54	53	1.9	69	59	15.6	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	53	52	1.9	67	58	14.4	40 - 140	30
1,2-Dichlorobenzene	ND	180	51	51	0.0	67	57	16.1	40 - 140	30
1,2-Diphenylhydrazine	ND	230	62	62	0.0	82	69	17.2	40 - 140	30
1,3-Dichlorobenzene	ND	230	50	50	0.0	63	55	13.6	40 - 140	30
1,4-Dichlorobenzene	ND	230	51	50	2.0	64	55	15.1	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	57	58	1.7	77	65	16.9	40 - 140	30
2,4,5-Trichlorophenol	ND	230	71	71	0.0	93	77	18.8	40 - 140	30
2,4,6-Trichlorophenol	ND	130	72	70	2.8	94	78	18.6	30 - 130	30
2,4-Dichlorophenol	ND	130	66	65	1.5	85	73	15.2	30 - 130	30
2,4-Dimethylphenol	ND	230	66	65	1.5	69	60	14.0	30 - 130	30
2,4-Dinitrophenol	ND	230	38	75	65.5	125	107	15.5	30 - 130	30 r
2,4-Dinitrotoluene	ND	130	68	68	0.0	89	74	18.4	30 - 130	30
2,6-Dinitrotoluene	ND	130	65	64	1.6	87	71	20.3	40 - 140	30
2-Chloronaphthalene	ND	230	60	59	1.7	78	65	18.2	40 - 140	30
2-Chlorophenol	ND	230	60	59	1.7	80	67	17.7	30 - 130	30
2-Methylnaphthalene	ND	230	58	58	0.0	75	65	14.3	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	30	34	12.5	61	37	49.0	40 - 140	30 l,m,r
2-Nitroaniline	ND	330	89	89	0.0	113	96	16.3	40 - 140	30
2-Nitrophenol	ND	230	80	79	1.3	105	88	17.6	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	64	66	3.1	84	71	16.8	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	70	69	1.4	62	50	21.4	40 - 140	30
3-Nitroaniline	ND	330	87	84	3.5	112	92	19.6	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	52	77	38.8	109	93	15.8	30 - 130	30 r
4-Bromophenyl phenyl ether	ND	230	64	63	1.6	83	69	18.4	40 - 140	30
4-Chloro-3-methylphenol	ND	230	73	74	1.4	104	82	23.7	30 - 130	30
4-Chloroaniline	ND	230	68	66	3.0	81	70	14.6	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	63	62	1.6	82	68	18.7	40 - 140	30

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Nitroaniline	ND	230	69	69	0.0	93	77	18.8	40 - 140	30	
4-Nitrophenol	ND	230	97	100	3.0	139	121	13.8	30 - 130	30	m
Acenaphthene	ND	230	62	62	0.0	84	70	18.2	30 - 130	30	
Acenaphthylene	ND	130	62	60	3.3	80	67	17.7	40 - 140	30	
Acetophenone	ND	230	54	55	1.8	73	61	17.9	40 - 140	30	
Aniline	ND	330	53	50	5.8	48	39	20.7	40 - 140	30	m
Anthracene	ND	230	68	65	4.5	87	72	18.9	40 - 140	30	
Benz(a)anthracene	ND	230	67	66	1.5	86	73	16.4	40 - 140	30	
Benzidine	ND	330	60	45	28.6	<10	<10	NC	40 - 140	30	m
Benzo(a)pyrene	ND	130	80	78	2.5	103	85	19.1	40 - 140	30	
Benzo(b)fluoranthene	ND	160	71	68	4.3	92	77	17.8	40 - 140	30	
Benzo(ghi)perylene	ND	230	74	72	2.7	90	74	19.5	40 - 140	30	
Benzo(k)fluoranthene	ND	230	67	64	4.6	85	70	19.4	40 - 140	30	
Benzoic Acid	ND	670	26	68	89.4	119	95	22.4	30 - 130	30	lr
Benzyl butyl phthalate	ND	230	71	69	2.9	92	78	16.5	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	59	59	0.0	77	66	15.4	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	55	54	1.8	73	61	17.9	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	71	69	2.9	92	77	17.8	40 - 140	30	
Carbazole	ND	230	69	66	4.4	86	72	17.7	40 - 140	30	
Chrysene	ND	230	69	67	2.9	88	73	18.6	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	73	72	1.4	92	75	20.4	40 - 140	30	
Dibenzofuran	ND	230	62	60	3.3	80	66	19.2	40 - 140	30	
Diethyl phthalate	ND	230	68	66	3.0	88	73	18.6	40 - 140	30	
Dimethylphthalate	ND	230	68	66	3.0	85	70	19.4	40 - 140	30	
Di-n-butylphthalate	ND	670	76	74	2.7	97	81	18.0	40 - 140	30	
Di-n-octylphthalate	ND	230	72	72	0.0	95	80	17.1	40 - 140	30	
Fluoranthene	ND	230	71	69	2.9	93	77	18.8	40 - 140	30	
Fluorene	ND	230	66	65	1.5	86	72	17.7	40 - 140	30	
Hexachlorobenzene	ND	130	66	64	3.1	85	71	17.9	40 - 140	30	
Hexachlorobutadiene	ND	230	53	52	1.9	68	60	12.5	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	59	57	3.4	77	66	15.4	40 - 140	30	
Hexachloroethane	ND	130	52	53	1.9	66	58	12.9	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	76	74	2.7	94	76	21.2	40 - 140	30	
Isophorone	ND	130	55	55	0.0	71	60	16.8	40 - 140	30	
Naphthalene	ND	230	56	56	0.0	72	62	14.9	40 - 140	30	
Nitrobenzene	ND	130	59	60	1.7	79	68	15.0	40 - 140	30	
N-Nitrosodimethylamine	ND	230	50	49	2.0	64	53	18.8	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	61	61	0.0	82	69	17.2	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	65	64	1.6	79	66	17.9	40 - 140	30	
Pentachloronitrobenzene	ND	230	71	69	2.9	93	77	18.8	40 - 140	30	
Pentachlorophenol	ND	230	69	68	1.5	91	75	19.3	30 - 130	30	
Phenanthrene	ND	130	65	63	3.1	84	69	19.6	40 - 140	30	
Phenol	ND	230	62	62	0.0	83	70	17.0	30 - 130	30	
Pyrene	ND	230	70	69	1.4	95	77	20.9	30 - 130	30	
Pyridine	ND	230	39	40	2.5	51	43	17.0	40 - 140	30	l
% 2,4,6-Tribromophenol	85	%	81	78	3.8	103	86	18.0	30 - 130	30	
% 2-Fluorobiphenyl	62	%	58	57	1.7	75	63	17.4	30 - 130	30	
% 2-Fluorophenol	60	%	56	56	0.0	76	62	20.3	30 - 130	30	
% Nitrobenzene-d5	59	%	55	60	8.7	75	62	19.0	30 - 130	30	
% Phenol-d5	65	%	61	61	0.0	81	67	18.9	30 - 130	30	
% Terphenyl-d14	69	%	63	62	1.6	82	68	18.7	30 - 130	30	

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 676433 (ug/kg), QC Sample No: CN98861 (CN98861, CN98862, CN98863)

Polynuclear Aromatic HC - Soil

1,4-dioxane	ND	67	97	98	1.0	79	71	10.7	30 - 130	30
% 2-Fluorobiphenyl	57	%	62	52	17.5	65	58	11.4	30 - 130	30
% Nitrobenzene-d5	69	%	90	79	13.0	94	88	6.6	30 - 130	30
% Terphenyl-d14	70	%	71	62	13.5	84	91	8.0	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 677074 (ug/kg), QC Sample No: CN99230 (CN98858, CN98859, CN98860)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	124	125	0.8				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	106	108	1.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	103	107	3.8				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	105	109	3.7				70 - 130	30
1,1-Dichloroethane	ND	5.0	90	93	3.3				70 - 130	30
1,1-Dichloroethene	ND	5.0	95	98	3.1				70 - 130	30
1,1-Dichloropropene	ND	5.0	110	110	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	107	108	0.9				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	101	105	3.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	103	101	2.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	109	108	0.9				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	123	126	2.4				70 - 130	30
1,2-Dibromoethane	ND	5.0	112	115	2.6				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	104	105	1.0				70 - 130	30
1,2-Dichloroethane	ND	5.0	98	101	3.0				70 - 130	30
1,2-Dichloropropane	ND	5.0	100	102	2.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	109	110	0.9				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	105	105	0.0				70 - 130	30
1,3-Dichloropropane	ND	5.0	105	106	0.9				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	102	102	0.0				70 - 130	30
2,2-Dichloropropane	ND	5.0	105	112	6.5				70 - 130	30
2-Chlorotoluene	ND	5.0	109	109	0.0				70 - 130	30
2-Hexanone	ND	25	87	93	6.7				70 - 130	30
2-Isopropyltoluene	ND	5.0	111	111	0.0				70 - 130	30
4-Chlorotoluene	ND	5.0	109	109	0.0				70 - 130	30
4-Methyl-2-pentanone	ND	25	90	95	5.4				70 - 130	30
Acetone	ND	10	68	69	1.5				70 - 130	30
Acrylonitrile	ND	5.0	78	83	6.2				70 - 130	30
Benzene	ND	1.0	108	109	0.9				70 - 130	30
Bromobenzene	ND	5.0	110	110	0.0				70 - 130	30
Bromochloromethane	ND	5.0	105	110	4.7				70 - 130	30
Bromodichloromethane	ND	5.0	109	114	4.5				70 - 130	30
Bromoform	ND	5.0	128	131	2.3				70 - 130	30
Bromomethane	ND	5.0	85	87	2.3				70 - 130	30
Carbon Disulfide	ND	5.0	86	89	3.4				70 - 130	30
Carbon tetrachloride	ND	5.0	115	119	3.4				70 - 130	30
Chlorobenzene	ND	5.0	107	107	0.0				70 - 130	30
Chloroethane	ND	5.0	91	92	1.1				70 - 130	30

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Chloroform	ND	5.0	103	105	1.9				70 - 130	30
Chloromethane	ND	5.0	100	102	2.0				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	103	92	11.3				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	110	114	3.6				70 - 130	30
Dibromochloromethane	ND	3.0	123	125	1.6				70 - 130	30
Dibromomethane	ND	5.0	104	107	2.8				70 - 130	30
Dichlorodifluoromethane	ND	5.0	116	118	1.7				70 - 130	30
Ethylbenzene	ND	1.0	110	110	0.0				70 - 130	30
Hexachlorobutadiene	ND	5.0	109	108	0.9				70 - 130	30
Isopropylbenzene	ND	1.0	111	112	0.9				70 - 130	30
m&p-Xylene	ND	2.0	108	108	0.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	76	81	6.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	85	90	5.7				70 - 130	30
Methylene chloride	ND	5.0	85	87	2.3				70 - 130	30
Naphthalene	ND	5.0	116	119	2.6				70 - 130	30
n-Butylbenzene	ND	1.0	108	105	2.8				70 - 130	30
n-Propylbenzene	ND	1.0	110	108	1.8				70 - 130	30
o-Xylene	ND	2.0	110	111	0.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	111	111	0.0				70 - 130	30
sec-Butylbenzene	ND	1.0	111	111	0.0				70 - 130	30
Styrene	ND	5.0	108	110	1.8				70 - 130	30
tert-Butylbenzene	ND	1.0	114	113	0.9				70 - 130	30
Tetrachloroethene	ND	5.0	105	106	0.9				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	82	88	7.1				70 - 130	30
Toluene	ND	1.0	109	111	1.8				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	91	94	3.2				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	118	122	3.3				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	96	99	3.1				70 - 130	30
Trichloroethene	ND	5.0	107	108	0.9				70 - 130	30
Trichlorofluoromethane	ND	5.0	101	99	2.0				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	88	92	4.4				70 - 130	30
Vinyl chloride	ND	5.0	92	95	3.2				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	101	1.0				70 - 130	30
% Bromofluorobenzene	98	%	101	101	0.0				70 - 130	30
% Dibromofluoromethane	96	%	95	98	3.1				70 - 130	30
% Toluene-d8	99	%	99	100	1.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 676799H (ug/kg), QC Sample No: CN99857 50X (CN98846 (50X) , CN98847 (50X) , CN98854 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	101	100	1.0	102	104	1.9	70 - 130	30
1,1,1-Trichloroethane	ND	250	96	96	0.0	102	105	2.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	100	101	1.0	108	105	2.8	70 - 130	30
1,1,2-Trichloroethane	ND	250	97	96	1.0	101	100	1.0	70 - 130	30
1,1-Dichloroethane	ND	250	94	95	1.1	101	103	2.0	70 - 130	30
1,1-Dichloroethene	ND	250	86	88	2.3	91	93	2.2	70 - 130	30
1,1-Dichloropropene	ND	250	104	105	1.0	114	115	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	98	99	1.0	99	101	2.0	70 - 130	30
1,2,3-Trichloropropane	ND	250	92	94	2.2	99	99	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	102	103	1.0	103	105	1.9	70 - 130	30

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
1,2,4-Trimethylbenzene	ND	250	102	103	1.0	127	114	10.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	103	103	0.0	112	108	3.6	70 - 130	30
1,2-Dibromoethane	ND	250	102	102	0.0	107	104	2.8	70 - 130	30
1,2-Dichlorobenzene	ND	250	99	99	0.0	102	102	0.0	70 - 130	30
1,2-Dichloroethane	ND	250	92	93	1.1	95	95	0.0	70 - 130	30
1,2-Dichloropropane	ND	250	98	98	0.0	104	104	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	102	104	1.9	115	112	2.6	70 - 130	30
1,3-Dichlorobenzene	ND	250	99	100	1.0	103	103	0.0	70 - 130	30
1,3-Dichloropropane	ND	250	101	100	1.0	105	106	0.9	70 - 130	30
1,4-Dichlorobenzene	ND	250	98	98	0.0	101	101	0.0	70 - 130	30
2,2-Dichloropropane	ND	250	95	96	1.0	103	104	1.0	70 - 130	30
2-Chlorotoluene	ND	250	102	102	0.0	108	109	0.9	70 - 130	30
2-Hexanone	ND	1300	100	102	2.0	115	109	5.4	70 - 130	30
2-Isopropyltoluene	ND	250	102	103	1.0	109	110	0.9	70 - 130	30
4-Chlorotoluene	ND	250	101	102	1.0	106	108	1.9	70 - 130	30
4-Methyl-2-pentanone	ND	1300	96	98	2.1	110	105	4.7	70 - 130	30
Acetone	ND	500	72	76	5.4	78	82	5.0	70 - 130	30
Acrylonitrile	ND	250	91	94	3.2	105	103	1.9	70 - 130	30
Benzene	ND	250	101	102	1.0	109	110	0.9	70 - 130	30
Bromobenzene	ND	250	100	101	1.0	104	104	0.0	70 - 130	30
Bromochloromethane	ND	250	94	95	1.1	97	98	1.0	70 - 130	30
Bromodichloromethane	ND	250	96	96	0.0	96	98	2.1	70 - 130	30
Bromoform	ND	250	101	100	1.0	98	99	1.0	70 - 130	30
Bromomethane	ND	250	71	72	1.4	78	77	1.3	70 - 130	30
Carbon Disulfide	ND	250	77	78	1.3	79	82	3.7	70 - 130	30
Carbon tetrachloride	ND	250	92	96	4.3	95	103	8.1	70 - 130	30
Chlorobenzene	ND	250	99	100	1.0	104	105	1.0	70 - 130	30
Chloroethane	ND	250	38	38	0.0	41	41	0.0	70 - 130	30
Chloroform	ND	250	93	94	1.1	99	101	2.0	70 - 130	30
Chloromethane	ND	250	96	97	1.0	98	103	5.0	70 - 130	30
cis-1,2-Dichloroethene	ND	250	98	99	1.0	104	106	1.9	70 - 130	30
cis-1,3-Dichloropropene	ND	250	100	99	1.0	103	103	0.0	70 - 130	30
Dibromochloromethane	ND	150	100	99	1.0	98	98	0.0	70 - 130	30
Dibromomethane	ND	250	97	95	2.1	100	100	0.0	70 - 130	30
Dichlorodifluoromethane	ND	250	95	96	1.0	94	99	5.2	70 - 130	30
Ethylbenzene	ND	250	103	103	0.0	111	113	1.8	70 - 130	30
Hexachlorobutadiene	ND	250	104	105	1.0	111	112	0.9	70 - 130	30
Isopropylbenzene	ND	250	104	106	1.9	114	115	0.9	70 - 130	30
m&p-Xylene	ND	250	104	104	0.0	111	111	0.0	70 - 130	30
Methyl ethyl ketone	ND	250	86	91	5.6	105	93	12.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	90	90	0.0	93	93	0.0	70 - 130	30
Methylene chloride	ND	250	77	79	2.6	78	81	3.8	70 - 130	30
Naphthalene	ND	250	108	109	0.9	115	115	0.0	70 - 130	30
n-Butylbenzene	ND	250	105	108	2.8	115	116	0.9	70 - 130	30
n-Propylbenzene	ND	250	102	104	1.9	112	113	0.9	70 - 130	30
o-Xylene	ND	250	103	103	0.0	109	109	0.0	70 - 130	30
p-Isopropyltoluene	ND	250	105	107	1.9	115	115	0.0	70 - 130	30
sec-Butylbenzene	ND	250	105	107	1.9	114	116	1.7	70 - 130	30
Styrene	ND	250	101	101	0.0	104	105	1.0	70 - 130	30
tert-Butylbenzene	ND	250	104	105	1.0	112	114	1.8	70 - 130	30
Tetrachloroethene	ND	250	100	102	2.0	108	109	0.9	70 - 130	30
Tetrahydrofuran (THF)	ND	250	90	92	2.2	107	101	5.8	70 - 130	30
Toluene	ND	250	101	102	1.0	109	110	0.9	70 - 130	30

l,m

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
trans-1,2-Dichloroethene	ND	250	85	85	0.0	92	94	2.2	70 - 130	30
trans-1,3-Dichloropropene	ND	250	99	99	0.0	100	101	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	108	102	5.7	108	106	1.9	70 - 130	30
Trichloroethene	ND	250	99	100	1.0	106	108	1.9	70 - 130	30
Trichlorofluoromethane	ND	250	28	29	3.5	30	30	0.0	70 - 130	30
Trichlorotrifluoroethane	ND	250	82	82	0.0	88	89	1.1	70 - 130	30
Vinyl chloride	ND	250	92	93	1.1	104	100	3.9	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	99	98	1.0	100	98	2.0	70 - 130	30
% Bromofluorobenzene	95	%	99	99	0.0	98	98	0.0	70 - 130	30
% Dibromofluoromethane	92	%	96	95	1.0	95	95	0.0	70 - 130	30
% Toluene-d8	95	%	98	99	1.0	99	99	0.0	70 - 130	30

l,m

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677038 (ug/kg), QC Sample No: CO00083 (CN98848, CN98849, CN98850, CN98852, CN98856, CN98857, CN98866)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	110	111	0.9	110	109	0.9	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	109	109	0.0	106	104	1.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	99	100	1.0	99	101	2.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	101	100	1.0	102	101	1.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	115	115	0.0	121	119	1.7	70 - 130	30
1,1-Dichloroethene	ND	5.0	117	116	0.9	122	121	0.8	70 - 130	30
1,1-Dichloropropene	ND	5.0	111	110	0.9	112	112	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	101	101	0.0	80	85	6.1	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	102	103	1.0	98	99	1.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	97	96	1.0	85	87	2.3	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	101	101	0.0	104	105	1.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	105	108	2.8	93	93	0.0	70 - 130	30
1,2-Dibromoethane	ND	5.0	106	108	1.9	106	106	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	102	101	1.0	97	101	4.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	103	103	0.0	100	99	1.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	105	103	1.9	107	105	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	107	105	1.9	107	108	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	101	99	2.0	100	101	1.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	106	107	0.9	107	106	0.9	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	100	98	2.0	97	99	2.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	109	101	7.6	102	105	2.9	70 - 130	30
2-Chlorotoluene	ND	5.0	107	105	1.9	108	109	0.9	70 - 130	30
2-Hexanone	ND	25	96	99	3.1	85	86	1.2	70 - 130	30
2-Isopropyltoluene	ND	5.0	106	104	1.9	105	108	2.8	70 - 130	30
4-Chlorotoluene	ND	5.0	104	102	1.9	106	108	1.9	70 - 130	30
4-Methyl-2-pentanone	ND	25	98	99	1.0	91	94	3.2	70 - 130	30
Acetone	ND	10	93	100	7.3	>200	>200	NC	70 - 130	30
Acrylonitrile	ND	5.0	100	104	3.9	91	95	4.3	70 - 130	30
Benzene	ND	1.0	108	108	0.0	108	108	0.0	70 - 130	30
Bromobenzene	ND	5.0	108	105	2.8	106	105	0.9	70 - 130	30
Bromochloromethane	ND	5.0	108	108	0.0	104	103	1.0	70 - 130	30
Bromodichloromethane	ND	5.0	104	103	1.0	102	103	1.0	70 - 130	30
Bromoform	ND	5.0	107	108	0.9	95	98	3.1	70 - 130	30
Bromomethane	ND	5.0	119	117	1.7	135	133	1.5	70 - 130	30
Carbon Disulfide	ND	5.0	110	109	0.9	113	113	0.0	70 - 130	30
Carbon tetrachloride	ND	5.0	109	110	0.9	99	101	2.0	70 - 130	30

m

m

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Chlorobenzene	ND	5.0	107	106	0.9	108	107	0.9	70 - 130	30	
Chloroethane	ND	5.0	124	121	2.4	135	137	1.5	70 - 130	30	m
Chloroform	ND	5.0	106	105	0.9	101	106	4.8	70 - 130	30	
Chloromethane	ND	5.0	110	110	0.0	106	106	0.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	104	108	3.8	108	109	0.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	103	103	0.0	102	102	0.0	70 - 130	30	
Dibromochloromethane	ND	3.0	107	108	0.9	103	102	1.0	70 - 130	30	
Dibromomethane	ND	5.0	105	106	0.9	107	109	1.9	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	116	113	2.6	112	113	0.9	70 - 130	30	
Ethylbenzene	ND	1.0	107	107	0.0	112	111	0.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	101	102	1.0	91	92	1.1	70 - 130	30	
Isopropylbenzene	ND	1.0	109	107	1.9	113	111	1.8	70 - 130	30	
m&p-Xylene	ND	2.0	107	107	0.0	110	110	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	93	101	8.2	79	80	1.3	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	108	109	0.9	113	112	0.9	70 - 130	30	
Methylene chloride	ND	5.0	100	99	1.0	103	103	0.0	70 - 130	30	
Naphthalene	ND	5.0	104	105	1.0	91	94	3.2	70 - 130	30	
n-Butylbenzene	ND	1.0	102	101	1.0	105	106	0.9	70 - 130	30	
n-Propylbenzene	ND	1.0	108	106	1.9	112	112	0.0	70 - 130	30	
o-Xylene	ND	2.0	105	105	0.0	109	108	0.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	105	104	1.0	108	110	1.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	108	107	0.9	110	112	1.8	70 - 130	30	
Styrene	ND	5.0	100	99	1.0	99	99	0.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	110	109	0.9	111	112	0.9	70 - 130	30	
Tetrachloroethene	ND	5.0	107	106	0.9	107	107	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	98	105	6.9	89	91	2.2	70 - 130	30	
Toluene	ND	1.0	107	107	0.0	108	109	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	114	114	0.0	119	119	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	103	103	0.0	99	98	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	103	104	1.0	90	92	2.2	70 - 130	30	
Trichloroethene	ND	5.0	111	111	0.0	112	111	0.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	124	125	0.8	135	139	2.9	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	109	108	0.9	117	119	1.7	70 - 130	30	
Vinyl chloride	ND	5.0	116	115	0.9	115	116	0.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	100	99	1.0	99	100	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	98	97	1.0	97	96	1.0	70 - 130	30	
% Dibromofluoromethane	97	%	100	100	0.0	84	84	0.0	70 - 130	30	
% Toluene-d8	97	%	99	100	1.0	98	100	2.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677038H (ug/kg), QC Sample No: CO00083 50X (CN98867 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	119	120	0.8	119	120	0.8	70 - 130	30	
1,1,1-Trichloroethane	ND	250	115	119	3.4	114	116	1.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	115	117	1.7	119	117	1.7	70 - 130	30	
1,1,2-Trichloroethane	ND	250	110	113	2.7	115	113	1.8	70 - 130	30	
1,1-Dichloroethane	ND	250	122	124	1.6	130	132	1.5	70 - 130	30	m
1,1-Dichloroethene	ND	250	97	97	0.0	109	110	0.9	70 - 130	30	
1,1-Dichloropropene	ND	250	122	125	2.4	127	126	0.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	123	126	2.4	120	122	1.7	70 - 130	30	
1,2,3-Trichloropropane	ND	250	117	118	0.9	118	117	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trichlorobenzene	ND	250	125	126	0.8	123	124	0.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	119	119	0.0	122	122	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	116	118	1.7	115	115	0.0	70 - 130	30
1,2-Dibromoethane	ND	250	116	120	3.4	124	122	1.6	70 - 130	30
1,2-Dichlorobenzene	ND	250	120	120	0.0	121	123	1.6	70 - 130	30
1,2-Dichloroethane	ND	250	113	115	1.8	113	113	0.0	70 - 130	30
1,2-Dichloropropane	ND	250	116	114	1.7	118	117	0.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	121	122	0.8	124	125	0.8	70 - 130	30
1,3-Dichlorobenzene	ND	250	120	121	0.8	124	125	0.8	70 - 130	30
1,3-Dichloropropane	ND	250	117	120	2.5	121	120	0.8	70 - 130	30
1,4-Dichlorobenzene	ND	250	120	121	0.8	123	124	0.8	70 - 130	30
2,2-Dichloropropane	ND	250	107	116	8.1	114	115	0.9	70 - 130	30
2-Chlorotoluene	ND	250	123	124	0.8	128	128	0.0	70 - 130	30
2-Hexanone	ND	1300	108	112	3.6	113	110	2.7	70 - 130	30
2-Isopropyltoluene	ND	250	120	121	0.8	124	125	0.8	70 - 130	30
4-Chlorotoluene	ND	250	122	123	0.8	127	128	0.8	70 - 130	30
4-Methyl-2-pentanone	ND	1300	109	112	2.7	112	111	0.9	70 - 130	30
Acetone	ND	500	90	92	2.2	102	102	0.0	70 - 130	30
Acrylonitrile	ND	250	111	112	0.9	121	123	1.6	70 - 130	30
Benzene	ND	250	116	119	2.6	121	121	0.0	70 - 130	30
Bromobenzene	ND	250	121	123	1.6	124	125	0.8	70 - 130	30
Bromochloromethane	ND	250	117	118	0.9	116	117	0.9	70 - 130	30
Bromodichloromethane	ND	250	114	114	0.0	112	112	0.0	70 - 130	30
Bromoform	ND	250	118	117	0.9	107	108	0.9	70 - 130	30
Bromomethane	ND	250	86	88	2.3	93	98	5.2	70 - 130	30
Carbon Disulfide	ND	250	91	91	0.0	104	106	1.9	70 - 130	30
Carbon tetrachloride	ND	250	115	118	2.6	106	110	3.7	70 - 130	30
Chlorobenzene	ND	250	119	121	1.7	124	124	0.0	70 - 130	30
Chloroethane	ND	250	64	63	1.6	74	72	2.7	70 - 130	30
Chloroform	ND	250	111	111	0.0	112	115	2.6	70 - 130	30
Chloromethane	ND	250	114	117	2.6	111	115	3.5	70 - 130	30
cis-1,2-Dichloroethene	ND	250	113	113	0.0	114	119	4.3	70 - 130	30
cis-1,3-Dichloropropene	ND	250	114	115	0.9	114	114	0.0	70 - 130	30
Dibromochloromethane	ND	150	116	117	0.9	114	114	0.0	70 - 130	30
Dibromomethane	ND	250	116	119	2.6	122	121	0.8	70 - 130	30
Dichlorodifluoromethane	ND	250	123	125	1.6	122	122	0.0	70 - 130	30
Ethylbenzene	ND	250	120	123	2.5	127	127	0.0	70 - 130	30
Hexachlorobutadiene	ND	250	124	126	1.6	123	123	0.0	70 - 130	30
Isopropylbenzene	ND	250	122	123	0.8	128	128	0.0	70 - 130	30
m&p-Xylene	ND	250	121	123	1.6	127	127	0.0	70 - 130	30
Methyl ethyl ketone	ND	250	105	107	1.9	103	104	1.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	117	120	2.5	122	123	0.8	70 - 130	30
Methylene chloride	ND	250	107	108	0.9	112	114	1.8	70 - 130	30
Naphthalene	ND	250	120	124	3.3	123	124	0.8	70 - 130	30
n-Butylbenzene	ND	250	127	128	0.8	130	132	1.5	70 - 130	30
n-Propylbenzene	ND	250	123	125	1.6	129	130	0.8	70 - 130	30
o-Xylene	ND	250	117	119	1.7	122	123	0.8	70 - 130	30
p-Isopropyltoluene	ND	250	124	125	0.8	128	130	1.6	70 - 130	30
sec-Butylbenzene	ND	250	123	125	1.6	129	131	1.5	70 - 130	30
Styrene	ND	250	112	114	1.8	117	116	0.9	70 - 130	30
tert-Butylbenzene	ND	250	121	123	1.6	127	128	0.8	70 - 130	30
Tetrachloroethene	ND	250	122	125	2.4	125	127	1.6	70 - 130	30
Tetrahydrofuran (THF)	ND	250	113	116	2.6	112	109	2.7	70 - 130	30

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Toluene	ND	250	117	119	1.7	122	123	0.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	121	124	2.4	130	131	0.8	70 - 130	30	m
trans-1,3-Dichloropropene	ND	250	113	115	1.8	112	113	0.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	115	116	0.9	113	111	1.8	70 - 130	30	
Trichloroethene	ND	250	120	122	1.7	125	126	0.8	70 - 130	30	
Trichlorofluoromethane	ND	250	36	38	5.4	43	44	2.3	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	100	102	2.0	113	117	3.5	70 - 130	30	
Vinyl chloride	ND	250	117	120	2.5	118	122	3.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	99	0.0	99	97	2.0	70 - 130	30	
% Bromofluorobenzene	97	%	98	97	1.0	97	95	2.1	70 - 130	30	
% Dibromofluoromethane	95	%	98	99	1.0	86	84	2.4	70 - 130	30	
% Toluene-d8	98	%	100	100	0.0	99	98	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677302 (ug/kg), QC Sample No: CO01232 (CN98851)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	104	108	3.8	105	107	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	104	106	1.9	111	114	2.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	98	102	4.0	110	112	1.8	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	101	100	1.0	105	107	1.9	70 - 130	30	
1,1-Dichloroethane	ND	5.0	118	120	1.7	131	134	2.3	70 - 130	30	m
1,1-Dichloroethene	ND	5.0	118	122	3.3	130	133	2.3	70 - 130	30	m
1,1-Dichloropropene	ND	5.0	106	109	2.8	112	115	2.6	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	96	101	5.1	96	97	1.0	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	98	100	2.0	106	106	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	95	100	5.1	94	96	2.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	102	107	4.8	110	112	1.8	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	94	98	4.2	99	100	1.0	70 - 130	30	
1,2-Dibromoethane	ND	5.0	105	104	1.0	107	110	2.8	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	102	106	3.8	105	109	3.7	70 - 130	30	
1,2-Dichloroethane	ND	5.0	95	98	3.1	101	104	2.9	70 - 130	30	
1,2-Dichloropropane	ND	5.0	100	103	3.0	108	110	1.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	103	110	6.6	113	115	1.8	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	102	107	4.8	105	108	2.8	70 - 130	30	
1,3-Dichloropropane	ND	5.0	104	106	1.9	110	112	1.8	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	101	106	4.8	104	107	2.8	70 - 130	30	
2,2-Dichloropropane	ND	5.0	105	107	1.9	106	113	6.4	70 - 130	30	
2-Chlorotoluene	ND	5.0	106	111	4.6	113	115	1.8	70 - 130	30	
2-Hexanone	ND	25	93	92	1.1	93	95	2.1	70 - 130	30	
2-Isopropyltoluene	ND	5.0	104	109	4.7	111	113	1.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	105	109	3.7	112	113	0.9	70 - 130	30	
4-Methyl-2-pentanone	ND	25	94	95	1.1	97	101	4.0	70 - 130	30	
Acetone	ND	10	101	99	2.0	102	104	1.9	70 - 130	30	
Acrylonitrile	ND	5.0	111	107	3.7	114	118	3.4	70 - 130	30	
Benzene	ND	1.0	103	107	3.8	110	112	1.8	70 - 130	30	
Bromobenzene	ND	5.0	100	106	5.8	104	106	1.9	70 - 130	30	
Bromochloromethane	ND	5.0	103	105	1.9	110	111	0.9	70 - 130	30	
Bromodichloromethane	ND	5.0	97	101	4.0	103	108	4.7	70 - 130	30	
Bromoform	ND	5.0	98	101	3.0	90	96	6.5	70 - 130	30	
Bromomethane	ND	5.0	128	129	0.8	143	149	4.1	70 - 130	30	m
Carbon Disulfide	ND	5.0	111	114	2.7	120	124	3.3	70 - 130	30	

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Carbon tetrachloride	ND	5.0	99	103	4.0	105	109	3.7	70 - 130	30	
Chlorobenzene	ND	5.0	104	107	2.8	108	109	0.9	70 - 130	30	
Chloroethane	ND	5.0	125	133	6.2	142	144	1.4	70 - 130	30	l,m
Chloroform	ND	5.0	103	106	2.9	115	118	2.6	70 - 130	30	
Chloromethane	ND	5.0	100	106	5.8	110	111	0.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	106	104	1.9	111	115	3.5	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	100	101	1.0	104	107	2.8	70 - 130	30	
Dibromochloromethane	ND	3.0	100	102	2.0	98	102	4.0	70 - 130	30	
Dibromomethane	ND	5.0	105	108	2.8	112	115	2.6	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	100	105	4.9	103	105	1.9	70 - 130	30	
Ethylbenzene	ND	1.0	107	111	3.7	111	114	2.7	70 - 130	30	
Hexachlorobutadiene	ND	5.0	93	97	4.2	91	89	2.2	70 - 130	30	
Isopropylbenzene	ND	1.0	105	111	5.6	114	116	1.7	70 - 130	30	
m&p-Xylene	ND	2.0	106	110	3.7	111	113	1.8	70 - 130	30	
Methyl ethyl ketone	ND	5.0	93	91	2.2	93	99	6.3	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	114	112	1.8	127	130	2.3	70 - 130	30	
Methylene chloride	ND	5.0	102	104	1.9	114	117	2.6	70 - 130	30	
Naphthalene	ND	5.0	103	107	3.8	111	111	0.0	70 - 130	30	
n-Butylbenzene	ND	1.0	106	111	4.6	113	117	3.5	70 - 130	30	
n-Propylbenzene	ND	1.0	106	113	6.4	115	118	2.6	70 - 130	30	
o-Xylene	ND	2.0	103	109	5.7	109	110	0.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	112	5.5	113	116	2.6	70 - 130	30	
sec-Butylbenzene	ND	1.0	107	113	5.5	116	119	2.6	70 - 130	30	
Styrene	ND	5.0	99	103	4.0	103	104	1.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	106	112	5.5	114	116	1.7	70 - 130	30	
Tetrachloroethene	ND	5.0	99	103	4.0	97	100	3.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	98	101	3.0	106	109	2.8	70 - 130	30	
Toluene	ND	1.0	104	107	2.8	111	113	1.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	116	119	2.6	129	132	2.3	70 - 130	30	m
trans-1,3-Dichloropropene	ND	5.0	99	101	2.0	103	106	2.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	97	99	2.0	100	103	3.0	70 - 130	30	
Trichloroethene	ND	5.0	105	109	3.7	107	108	0.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	130	136	4.5	144	148	2.7	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	5.0	114	115	0.9	120	126	4.9	70 - 130	30	
Vinyl chloride	ND	5.0	111	115	3.5	121	124	2.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	96	%	96	98	2.1	97	98	1.0	70 - 130	30	
% Dibromofluoromethane	87	%	85	83	2.4	85	85	0.0	70 - 130	30	
% Toluene-d8	98	%	99	99	0.0	101	101	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GCN98846

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director
May 30, 2023

Tuesday, May 30, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCN98846 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CN98846-CN98867

Sampling Date(s): 5/5/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the YPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: PCB Narration, SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Tuesday, May 30, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
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RCP Certification Report

May 30, 2023

SDG I.D.: GCN98846

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID11 05/12/23-1

Jeff Bucko, Chemist 05/12/23

CN98846 (1X), CN98847 (1X), CN98860 (1X), CN98861 (1X), CN98862 (1X), CN98863 (1X)

The initial calibration (ETPH510I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (512A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 05/12/23-1

Jeff Bucko, Chemist 05/12/23

CN98850 (1X), CN98853 (1X), CN98855 (1X), CN98856 (1X), CN98858 (1X), CN98859 (1X)

The initial calibration (ETPH306I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (512A004_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 05/15/23-1

Jeff Bucko, Chemist 05/15/23

CN98848 (1X), CN98849 (1X), CN98851 (1X), CN98857 (1X)

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (515A003_2) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 677309 (CN98478)

CN98846, CN98847, CN98850, CN98853, CN98855, CN98856, CN98858, CN98859, CN98860, CN98861, CN98862, CN98863

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 677757 (CO01131)

CN98848, CN98849, CN98851, CN98857

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

GLYCOL

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.



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RCP Certification Report

May 30, 2023

SDG I.D.: GCN98846

GLYCOL

Instrument:

GLYCOL 05/24/23-1 Christina Kozikis, Chemist 05/24/23

CN98864 (1X), CN98865 (1X)

The initial calibration (GLY_523I) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 25% except for the following compounds:

Samples: CN98864, CN98865

Preceding CC 524A032 - None.

Succeeding CC 524A042 - ethylene glycol 26%H (25%)

QC (Batch Specific):

Batch 679263 (CN98598)

CN98864, CN98865

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/09/23 13:53 Paul Marshall, Chemist 05/09/23

CN98856, CN98860

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 676575 (CN98897)

CN98856

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 676613 (CN99056)

CN98860

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.



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Certification Report

May 30, 2023

SDG I.D.: GCN98846

Mercury Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 05/08/23 11:42 Tina Hall, Chemist 05/08/23
CN98849, CN98850, CN98851, CN98853, CN98855, CN98856, CN98857, CN98859, CN98860, CN98861, CN98862, CN98863

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/09/23 12:37 Tina Hall, Chemist 05/09/23

CN98848

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 676470 (CN99115)

CN98848

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 676473 (CN98859)

CN98849, CN98850, CN98851, CN98853, CN98855, CN98856, CN98857, CN98859, CN98860, CN98861, CN98862, CN98863

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration



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RCP Certification Report

May 30, 2023

SDG I.D.: GCN98846

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677368 (Samples: CN98856, CN98860): -----

The LCS/LCSD RPD exceeds the method criteria for one surrogate. No significant variability is suspected. (% TCMX (Surrogate Rec), % TCMX (Surrogate Rec) (Confirmation))

Instrument:

AU-ECD1 05/12/23-1 Saadia Chudary, Chemist 05/12/23

CN98856 (10X), CN98860 (10X)

The initial calibration (PC0329AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0329BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 677368 (CO03260)

CN98856, CN98860

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: % TCMX (Surrogate Rec)(31.2%), % TCMX (Surrogate Rec) (Confirmation)(36.5%)

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677184 (Samples: CN98856, CN98860): -----

Several QC recoveries are below the lower range. A low bias is possible. (2-Methylphenol (o-cresol))

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Benzoic Acid, Pyridine)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is possible. (Aniline, Benzidine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Benzoic Acid)

The MS and/or the MSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (4-Nitrophenol)

The MS/MSD RPD exceeds the method criteria for one analyte, therefore there may be variability in the reported result. (2-Methylphenol (o-cresol))

Instrument:

CHEM19 05/11/23-1 Matt Richard, Chemist 05/11/23

CN98848 (1X), CN98849 (1X), CN98850 (1X), CN98851 (1X), CN98853 (1X), CN98855 (1X), CN98857 (1X), CN98859 (1X)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 30, 2023

SDG I.D.: GCN98846

SVOA Narration

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0511_03-19_BN_0419):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM36 05/11/23-1

Matt Richard, Chemist 05/11/23

CN98856 (1X, 1000X), CN98860 (1X)

Initial Calibration Evaluation (CHEM36/36_SPLIT_0504):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.046 (0.05), 2-Nitrophenol 0.040 (0.1), Hexachlorobenzene 0.085 (0.1)

The following compounds did not meet a minimum response factors: % 2,4,6-Tribromophenol 0.046 (0.05), 2-Nitrophenol 0.040 (0.05)

Continuing Calibration Verification (CHEM36/0511_03-36_SPLIT_0504):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Nitrophenol 32%H (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.053 (0.1), Hexachlorobenzene 0.083 (0.1)

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 677185 (CN97939)

CN98848, CN98849, CN98850, CN98851, CN98853, CN98855, CN98857, CN98859

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 677184 (CN98856)



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RCP Certification Report

May 30, 2023

SDG I.D.: GCN98846

SVOA Narration

CN98856, CN98860

All LCS recoveries were within 40 - 140 with the following exceptions: 2-Methylphenol (o-cresol)(30%), Benzoic Acid(26%), Pyridine(39%)

All LCSD recoveries were within 40 - 140 with the following exceptions: 2-Methylphenol (o-cresol)(34%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(65.5%), 4,6-Dinitro-2-methylphenol(38.8%), Benzoic Acid(89.4%)

All MS recoveries were within 40 - 140 with the following exceptions: 4-Nitrophenol(139%), Benzidine(<10%)

All MSD recoveries were within 40 - 140 with the following exceptions: 2-Methylphenol (o-cresol)(37%), Aniline(39%), Benzidine(<10%)

All MS/MSD RPDs were less than 30% with the following exceptions: 2-Methylphenol (o-cresol)(49.0%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM33 05/07/23-2 Keith Aloisa, Chemist 05/07/23

CN98861 (1X, 1000X), CN98862 (1X), CN98863 (1X)

Initial Calibration Evaluation (CHEM33/33_DIOX_0507):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM33/0507_18-33_DIOX_0507):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 677185 (CN97939)

CN98848, CN98849, CN98850, CN98851, CN98853, CN98855, CN98857, CN98859

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 676433 (CN98861)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 30, 2023

SDG I.D.: GCN98846

SVOASIM Narration

CN98861, CN98862, CN98863

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 676799H: -----

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 677038H: -----

The LCS/LCSD is below the lower range. A low bias for this analyte is possible. (Chloroethane)

The QC recoveries for one analyte are below the method criteria. A low bias is likely. (Trichlorofluoromethane)

QC Batch 677074 (Samples: CN98858, CN98859, CN98860): -----

The LCS/LCSD is below the lower range. A low bias for this analyte is possible. (Acetone)

The LCSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (Bromoform)

QC Batch 677302 (Samples: CN98851): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM03 05/08/23-2

Jane Li, Chemist 05/08/23

CN98846 (50X), CN98847 (50X), CN98854 (50X)

Initial Calibration Evaluation (CHEM03/VT-L042823):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 21% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0508_36-VT-L042823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.



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RCP Certification Report

May 30, 2023

SDG I.D.: GCN98846

VOA Narration

The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 05/09/23-2

Jane Li, Chemist 05/09/23

CN98848 (1X), CN98849 (1X), CN98850 (1X), CN98852 (1X), CN98856 (1X), CN98857 (1X), CN98866 (1X), CN98867 (50X)

Initial Calibration Evaluation (CHEM26/VT-050923):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: Tetrachloroethene 0.166 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0509_17-VT-050923):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 05/10/23-1

Jane Li, Chemist 05/10/23

CN98851 (1X)

Initial Calibration Evaluation (CHEM26/VT-050923):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: Tetrachloroethene 0.166 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0510_02-VT-050923):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/09/23-2

Jane Li, Chemist 05/09/23

CN98858 (1X), CN98859 (1X), CN98860 (1X)

Initial Calibration Evaluation (CHEM31/VT-L050123):

91% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 28% (20%), Acetone 24% (20%), Bromoform 27% (20%), Bromomethane 23% (20%), Chloroethane 28% (20%), Dibromochloromethane 21% (20%), Naphthalene 21% (20%), trans-1,3-Dichloropropene 27% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.081 (0.1), Bromoform 0.087 (0.1), Tetrachloroethene 0.145 (0.2), Trichloroethene 0.198 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0509_35-VT-L050123):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 30, 2023

SDG I.D.: GCN98846

VOA Narration

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 676799H (CN99857) CHEM03 5/8/2023-2

CN98846(50X), CN98847(50X), CN98854(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(38%), Trichlorofluoromethane(28%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(38%), Trichlorofluoromethane(29%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677038 (CO00083) CHEM26 5/9/2023-2

CN98848(1X), CN98849(1X), CN98850(1X), CN98852(1X), CN98856(1X), CN98857(1X), CN98866(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677038H (CO00083) CHEM26 5/9/2023-2

CN98867(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(64%), Trichlorofluoromethane(36%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(63%), Trichlorofluoromethane(38%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677074 (CN99230) CHEM31 5/9/2023-2

CN98858(1X), CN98859(1X), CN98860(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(68%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(69%), Bromoform(131%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677302 (CO01232) CHEM26 5/10/2023-1

CN98851(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(133%), Trichlorofluoromethane(136%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.8C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Coolant: Yes No
 IPK ICE
 Temp 1.8 °C Pg 1 of 2

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 5/5/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT/ETPH (DPH METHOD)	VOCs (EPA 8260/8085)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total RCRA 8 Metals	Total RSR 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) methanol (2) H2O	GL Soil container (8) oz	GL Soil container (8) oz	40 ml VOA Vial (1) As is (1) HCl	PL As is (1250ml) (1) H2SO4	PL H2SO4 (1250ml) (1) H2SO4	PL HNO3 250ml (1) 1000ml	Bacteria Bottle witho	Bacteria Bottle as is	Hold		
98846	B-35(11-13)	S	5/5/23	1230	X	X																					
98847	DUP-6	S	5/5/23	1231	X	X																					
98848	B-36(10-12)	S	5/5/23	1000	X	X		X		X																	
98849	B-37(10-12)	S	5/5/23	0905	X	X		X		X																	
98850	B-38(10-12)	S	5/5/23	0925	X	X		X		X																	
98851	B-39(10-12)	S	5/5/23	0840	X	X		X		X																	
98852	B-40(5-7)	S	5/5/23	0920		X																					
98853	B-40(10-12)	S	5/5/23	0821	X			X		X																	
98854	B-41(5-7)	S	5/5/23	0955		X																					
98855	B-41(10-12)	S	5/5/23	0756	X			X		X																	
98856	B-36(10-12)	S	5/5/23	0945	X	X		X		X						X											
98857	B-32(10-12)	S	5/5/23	1150	X	X		X		X																	

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 5/5/23 Time: 15:04
5/5/23 15:43

Comments, Special Requirements or Regulations:
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

- RI**
- (Residential) Direct Exposure
 - (Comm/Industrial) Direct Exposure
 - GA Leachability
 - GB Leachability
 - GA-GW Objectives
 - GB-GW Objectives

- CT**
- RCP Cert
 - GW Protection
 - SW Protection
 - GA Mobility
 - GA Leachability
 - GB Mobility
 - Residential DEC
 - I/C DEC
 - Other

- MA**
- MCP Certification
 - GW-1 MWRA eSMART
 - GW-2 S-1 10% CALC
 - GW-3
 - S-1 GW-1 S-1 GW-2 S-1 GW-3
 - S-2 GW-1 S-2 GW-2 S-2 GW-3
 - S-3 GW-1 S-3 GW-2 S-3 GW-3
 - SW Protection

- Data Format**
- Excel
 - PDF
 - GIS/Key
 - EQUIS
 - Other-Envirodata
- Data Package**
- Tier II Checklist
 - Full Data Package*
 - Phoenix Std Report
 - Other

State where samples were collected: CT

* SURCHARGE APPLIES

*MSMSD are considered sita samples and will be billed as such in accordance with the prices quoted.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes No
 Coplant: IPK ICE
 Temp 11.8 °C Pg 2 of 2

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/5/23
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT/ETPH (DPH METHOD)	VOCs (EPA 8260/8035)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total RCRA 8 Metals	Total RSR 15 Metals	Total Lead	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) methanol (2) H2O	GL Soil container (8) oz	GL Soil container (8) oz	40 ml VOA Vial (1) As is (1) HCl	PL As is (1) 250ml (1) 500ml (1) H2SO4	PL H2SO4 (1) 250ml (1) 500ml	PL HNO3 250ml	Bacteria Bottle with/without	Bacteria Bottle as is	Hold	
98858	B-33(10-12)	S	5/5/23	1025	X	X									3	1									
98859	B-85(3-5)	S	5/5/23	1205	X	X	X		X						3	1									
98860	B-106(2-4)	S	5/5/23	1335	X	X	X		X				X		3	1									
98861	B-109(1-3)	S	5/5/23	1405	X	X				X															
98862	B-110(3-5)	S	5/5/23	1400	X	X				X															
98863	B-111(2-4)	S	5/5/23	1340	X	X				X															
98864	B-109 Gypsol (1-3)	S	5/5/23	1405								X													
98865	B-110 Gypsol (3-5)	S	5/5/23	1400								X													
98866	TB050525L					X									2										
98867	TB050523H					X									1										

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 5/5/23 Time: 1504
5/5/23 1543

Comments, Special Requirements or Regulations:
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

- RI**
- (Residential) Direct Exposure
 - (Comm/Industrial) Direct Exposure
 - GA Leachability
 - GB Leachability
 - GA-GW Objectives
 - GB-GW Objectives

- CT**
- RCP Cert
 - GW Protection
 - SW Protection
 - GA Mobility
 - GA Leachability
 - GB Mobility
 - Residential DEC
 - I/C DEC
 - Other

- MA**
- MCP Certification
 - GW-1 MWRA eSMART
 - GW-2 S-1 10% CALC
 - GW-3
 - S-1 GW-1 S-1 GW-2 S-1 GW-3
 - S-2 GW-1 S-2 GW-2 S-2 GW-3
 - S-3 GW-1 S-3 GW-2 S-3 GW-3
 - SW Protection

- Data Format**
- Excel
 - PDF
 - GIS/Key
 - EQUIS
 - Other-Envirodata
- Data Package**
- Tier II Checklist
 - Full Data Package*
 - Phoenix Std Report
 - Other

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Monday, May 08, 2023 12:32 AM
To: Sarah Bell
Subject: FW: Phoenix Labs - GCN98846, BRAINARD AIRPORT - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Hi Sarah,
Just a couple minor revisions on this one:

- CN98856/B-86 (0-2') – Please add PCB analysis, do not analyze pesticides.
- CN98859/B-58 (3-5') – Please analyze for PAHs instead of the full suite of SVOCs. Also, analyze for just lead instead of all RSR metals.

Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II

Tighe&Bond

o. 203.712.1106 | m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com



From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Friday, May 5, 2023 9:55 PM
To: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: Phoenix Labs - GCN98846, BRAINARD AIRPORT - COC Acknowledgement

[Caution - External Sender]

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 12-5182-001

Samples Will Be Disposed After: 30 Days

GCN98846 Criteria:

SOIL(22): CT GBM (GB Mobility), CT I/C (I/C Dec), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed.

Delivery group GCN98846 (BRAINARD AIRPORT) has been logged in for the following samples:

Phoenix Id	Client Id
CN98846	B-35 (11-13)
CN98847	DUP-6
CN98848	B-36 (10-12)
CN98849	B-37 (10-12)
CN98850	B-38 (10-12)
CN98851	B-39 (10-12)
CN98852	B-40 (5-7)
CN98853	B-40 (10-12)
CN98854	B-41 (5-7)
CN98855	B-41 (10-12)
CN98856	B-86 (0-2)
CN98857	B-32 (10-12)
CN98858	B-33 (10-12)

CN98859	B-85 (3-5)
CN98860	B-106 (2-4)
CN98861	B-109 (1-3)
CN98862	B-110 (3-5)
CN98863	B-111 (2-4)
CN98864	B-109 GLYCOL (1-3)
CN98865	B-110 GLYCOL (3-5)
CN98866	TB050523L
CN98867	TB050523H

This SDG has been logged in for Standard 7 business day turn-around time.

The samples were received at 1.8C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.

cc':JTolsen@tighebond.com; jlliby@tighebond.com; cwatts@tighebond.com; MPaulsson@TigheBond.com; [jjackson@tighebond.com](mailto;jjackson@tighebond.com)



Wednesday, June 28, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO00632
Sample ID#s: CO00632 - CO00653

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 28, 2023

SDG I.D.: GCO00632

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
HA-1 (0-0.5)	CO00632	SOIL
HA-2 (0-0.5)	CO00633	SOIL
HA-5 (0-0.5)	CO00634	SOIL
HA-7 (0-0.5)	CO00635	SOIL
HA-9 (0-0.5)	CO00636	SOIL
HA-10 (0-0.5)	CO00637	SOIL
HA-15 (0-0.5)	CO00638	SOIL
HA-17 (0-0.5)	CO00639	SOIL
HA-18 (0-0.5)	CO00640	SOIL
HA-19 (0-0.5)	CO00641	SOIL
HA-41 (0-0.5)	CO00642	SOIL
HA-43 (0-0.5)	CO00643	SOIL
HA-44 (0-0.5)	CO00644	SOIL
HA-45 (0-0.5)	CO00645	SOIL
HA-46 (0-0.5)	CO00646	SOIL
HA-47 (0-0.5)	CO00647	SOIL
B-134 (0-2)	CO00648	SOIL
HA-14 (0-0.5)	CO00649	SOIL
HA-21 (0-0.5)	CO00650	SOIL
HA-39 (0-0.5)	CO00651	SOIL
TB050823L	CO00652	SOIL
TB050823H	CO00653	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: 5 Day
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

11:40
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00632

Project ID: BRAINARD AIRPORT
 Client ID: HA-1 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.99	0.79	mg/Kg	1	05/13/23	CPP	SW6010D
Lead	149	0.40	mg/Kg	1	05/13/23	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	06/27/23	IE	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	84		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/08/23		SW5035A
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for Herbicide	Completed				05/16/23	J/L/D	SW3546
Soil Extraction for Pesticide	Completed				05/10/23	C/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	05/17/23	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	05/17/23	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	05/17/23	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	05/17/23	JRB	SW8151A

QA/QC Surrogates

% DCAA	102		%	10	05/17/23	JRB	30 - 150 %
% DCAA (Confirmation)	92		%	10	05/17/23	JRB	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	70	58	mg/Kg	1	05/16/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/16/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	94		%	1	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	112		%	1	05/16/23	JRB	50 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
4,4' -DDE	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
4,4' -DDT	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	05/11/23	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	05/11/23	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/11/23	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/11/23	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	05/11/23	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/11/23	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/11/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	05/11/23	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	05/11/23	AW	30 - 150 %
% TCMX	70		%	2	05/11/23	AW	30 - 150 %
% TCMX (Confirmation)	70		%	2	05/11/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.67	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
4-Chlorotoluene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromobenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Toluene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Total Xylenes	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C
Trichloroethene	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	6.7	ug/Kg	1	05/12/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	103		%	1	05/12/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/12/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	300	270	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	290	270	ug/Kg	1	05/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	66		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	82		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	69		%	1	05/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

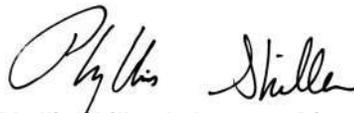
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

05/08/23
05/09/23

Time

11:55
11:55

Laboratory Data

SDG ID: GCO00632
Phoenix ID: CO00633

Project ID: BRAINARD AIRPORT
Client ID: HA-2 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.40	0.88	mg/Kg	1	05/13/23	CPP	SW6010D
Lead	32.3	0.44	mg/Kg	1	05/13/23	CPP	SW6010D
Percent Solid	81		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/08/23		SW5035A
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for Herbicide	Completed				05/16/23	J/L/D	SW3546
Soil Extraction for Pesticide	Completed				05/10/23	C/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
2,4-D	ND	310	ug/Kg	10	05/17/23	JRB	SW8151A
2,4-DB	ND	3100	ug/Kg	10	05/17/23	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
Dichloroprop	ND	310	ug/Kg	10	05/17/23	JRB	SW8151A
Dinoseb	ND	310	ug/Kg	10	05/17/23	JRB	SW8151A

QA/QC Surrogates

% DCAA	112		%	10	05/17/23	JRB	30 - 150 %
% DCAA (Confirmation)	96		%	10	05/17/23	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	310	mg/Kg	5	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/16/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	72		%	5	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	99		%	5	05/16/23	JRB	50 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
4,4' -DDE	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
4,4' -DDT	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	05/12/23	AW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	05/12/23	AW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	05/12/23	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/12/23	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	05/12/23	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	05/12/23	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/12/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	62		%	2	05/12/23	AW	30 - 150 %
% DCBP (Confirmation)	74		%	2	05/12/23	AW	30 - 150 %
% TCMX	64		%	2	05/12/23	AW	30 - 150 %
% TCMX (Confirmation)	74		%	2	05/12/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.57	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
4-Chlorotoluene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromobenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Total Xylenes	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/Kg	1	05/12/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	05/12/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/12/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	300	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	390	280	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	370	280	ug/Kg	1	05/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	93		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	80		%	1	05/13/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: 5 Day
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

13:35
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00634

Project ID: BRAINARD AIRPORT
 Client ID: HA-5 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.00	0.84	mg/Kg	1	05/13/23	CPP	SW6010D
Lead	63.0	0.42	mg/Kg	1	05/13/23	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	82		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/08/23		SW5035A
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for Pesticide	Completed				05/17/23	MO/F	SW3546
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	300	mg/Kg	5	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	76		%	5	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	96		%	5	05/16/23	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
4,4' -DDE	15	7.9	ug/Kg	2	05/19/23	AW	SW8081B
4,4' -DDT	10	7.9	ug/Kg	2	05/19/23	AW	SW8081B
a-BHC	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Alachlor	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	05/19/23	AW	SW8081B
b-BHC	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlordane	ND	40	ug/Kg	2	05/19/23	AW	SW8081B
d-BHC	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/19/23	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	05/19/23	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	05/19/23	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/19/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	71		%	2	05/19/23	AW	30 - 150 %
% DCBP (Confirmation)	66		%	2	05/19/23	AW	30 - 150 %
% TCMX	75		%	2	05/19/23	AW	30 - 150 %
% TCMX (Confirmation)	86		%	2	05/19/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.78	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloroethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichloropropane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	39	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
4-Chlorotoluene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	39	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	390	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	4.7	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	47	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	05/12/23	JLI	SW8260C
Toluene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Total Xylenes	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	05/12/23	JLI	SW8260C
Trichloroethene	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	7.8	ug/Kg	1	05/12/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	05/12/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/12/23	JLI	70 - 130 %
1,4-dioxane							
1,4-dioxane	ND	120	ug/kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	330	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	2100	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	3000	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	5000	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	2000	280	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	1400	280	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	3300	280	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	450	280	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	6200	280	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	2100	280	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	1900	280	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	4800	280	ug/Kg	1	05/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	70		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	85		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	76		%	1	05/13/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

05/08/23
05/09/23

Time

13:10
11:55

Laboratory Data

SDG ID: GCO00632
Phoenix ID: CO00635

Project ID: BRAINARD AIRPORT
Client ID: HA-7 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.86	0.79	mg/Kg	1	05/13/23	CPP	SW6010D
Lead	30.7	0.40	mg/Kg	1	05/13/23	CPP	SW6010D
Percent Solid	85		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/08/23		SW5035A
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for Herbicide	Completed				05/16/23	J/L/D	SW3546
Soil Extraction for Pesticide	Completed				05/12/23	C/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
2,4-D	ND	290	ug/Kg	10	05/17/23	JRB	SW8151A
2,4-DB	ND	2900	ug/Kg	10	05/17/23	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/17/23	JRB	SW8151A
Dichloroprop	ND	290	ug/Kg	10	05/17/23	JRB	SW8151A
Dinoseb	ND	290	ug/Kg	10	05/17/23	JRB	SW8151A

QA/QC Surrogates

% DCAA	111		%	10	05/17/23	JRB	30 - 150 %
% DCAA (Confirmation)	98		%	10	05/17/23	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/16/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	125		%	5	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	81		%	5	05/16/23	JRB	50 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
4,4' -DDE	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
4,4' -DDT	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Alachlor	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	05/15/23	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	05/15/23	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	05/15/23	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/15/23	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	05/15/23	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	05/15/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/15/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	40		%	2	05/15/23	AW	30 - 150 %
% DCBP (Confirmation)	53		%	2	05/15/23	AW	30 - 150 %
% TCMX	39		%	2	05/15/23	AW	30 - 150 %
% TCMX (Confirmation)	45		%	2	05/15/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.1	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.69	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	34	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
4-Chlorotoluene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	34	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	340	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Bromobenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	4.1	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	41	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	05/12/23	JLI	SW8260C
Toluene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Total Xylenes	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	6.9	ug/Kg	1	05/12/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/12/23	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/12/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	310	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	400	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	300	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	320	270	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	530	270	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	630	270	ug/Kg	1	05/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	68		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	90		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	76		%	1	05/13/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: 5 Day
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

12:50
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00636

Project ID: BRAINARD AIRPORT
 Client ID: HA-9 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.83	0.84	mg/Kg	1	05/13/23	CPP	SW6010D
Lead	41.4	0.42	mg/Kg	1	05/13/23	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	78		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/08/23		SW5035A
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for Herbicide	Completed				05/17/23	J/L/D	SW3546
Soil Extraction for Pesticide	Completed				05/12/23	C/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	160	ug/Kg	10	05/18/23	JRB	SW8151A
2,4,5-TP (Silvex)	ND	160	ug/Kg	10	05/18/23	JRB	SW8151A
2,4-D	ND	320	ug/Kg	10	05/18/23	JRB	SW8151A
2,4-DB	ND	3200	ug/Kg	10	05/18/23	JRB	SW8151A
Dalapon	ND	160	ug/Kg	10	05/18/23	JRB	SW8151A
Dicamba	ND	160	ug/Kg	10	05/18/23	JRB	SW8151A
Dichloroprop	ND	320	ug/Kg	10	05/18/23	JRB	SW8151A
Dinoseb	ND	320	ug/Kg	10	05/18/23	JRB	SW8151A

QA/QC Surrogates

% DCAA	91		%	10	05/18/23	JRB	30 - 150 %
% DCAA (Confirmation)	81		%	10	05/18/23	JRB	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/15/23	JRB	CTETPH
Identification	**		mg/Kg	1	05/15/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	123		%	1	05/15/23	JRB	50 - 150 %
% Terphenyl (surr)	124		%	1	05/15/23	JRB	50 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
4,4' -DDE	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
4,4' -DDT	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
a-BHC	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	05/16/23	AW	SW8081B
b-BHC	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	05/16/23	AW	SW8081B
d-BHC	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	05/16/23	AW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Endrin	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	05/16/23	AW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	05/16/23	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	05/16/23	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	05/16/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	34		%	2	05/16/23	AW	30 - 150 %
% DCBP (Confirmation)	38		%	2	05/16/23	AW	30 - 150 %
% TCMX	46		%	2	05/16/23	AW	30 - 150 %
% TCMX (Confirmation)	50		%	2	05/16/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.65	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
4-Chlorotoluene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Bromobenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	3.9	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	39	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Toluene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Total Xylenes	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C
Trichloroethene	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	6.5	ug/Kg	1	05/12/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/12/23	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/12/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	390	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	520	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	570	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	370	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	400	300	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	720	300	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	340	300	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	860	300	ug/Kg	1	05/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	70		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	87		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	81		%	1	05/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

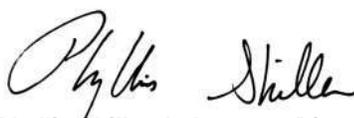
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: 5 Day
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date Time
 05/08/23 13:05
 05/09/23 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00637

Project ID: BRAINARD AIRPORT
 Client ID: HA-10 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.42	0.89	mg/Kg	1	05/13/23	CPP	SW6010D
Lead	51.5	0.44	mg/Kg	1	05/13/23	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	77		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/08/23		SW5035A
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for Herbicide	Completed				05/17/23	J/L/D	SW3546
Soil Extraction for Pesticide	Completed				05/17/23	MO/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	160	ug/Kg	10	05/18/23	JRB	SW8151A
2,4,5-TP (Silvex)	ND	160	ug/Kg	10	05/18/23	JRB	SW8151A
2,4-D	ND	320	ug/Kg	10	05/18/23	JRB	SW8151A
2,4-DB	ND	3200	ug/Kg	10	05/18/23	JRB	SW8151A
Dalapon	ND	160	ug/Kg	10	05/18/23	JRB	SW8151A
Dicamba	ND	160	ug/Kg	10	05/18/23	JRB	SW8151A
Dichloroprop	ND	320	ug/Kg	10	05/18/23	JRB	SW8151A
Dinoseb	ND	320	ug/Kg	10	05/18/23	JRB	SW8151A

QA/QC Surrogates

% DCAA	84		%	10	05/18/23	JRB	30 - 150 %
% DCAA (Confirmation)	67		%	10	05/18/23	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/15/23	JRB	CTETPH
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	ND		mg/Kg	1	05/15/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	90		%	1	05/15/23	JRB	50 - 150 %
% Terphenyl (surr)	83		%	1	05/15/23	JRB	50 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
4,4' -DDE	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
4,4' -DDT	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
a-BHC	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	05/19/23	AW	SW8081B
b-BHC	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Chlordane	ND	43	ug/Kg	2	05/19/23	AW	SW8081B
d-BHC	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Endrin	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	05/19/23	AW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	05/19/23	AW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	05/19/23	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	05/19/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	72		%	2	05/19/23	AW	30 - 150 %
% DCBP (Confirmation)	67		%	2	05/19/23	AW	30 - 150 %
% TCMX	72		%	2	05/19/23	AW	30 - 150 %
% TCMX (Confirmation)	84		%	2	05/19/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	1.1	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloroethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichloropropane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	55	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
4-Chlorotoluene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	55	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	550	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Bromobenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	6.6	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	66	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	22	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	22	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	22	ug/Kg	1	05/12/23	JLI	SW8260C
Toluene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Total Xylenes	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	22	ug/Kg	1	05/12/23	JLI	SW8260C
Trichloroethene	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	22	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	11	ug/Kg	1	05/12/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	05/12/23	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/12/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

10:55
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00638

Project ID: BRAINARD AIRPORT
 Client ID: HA-15 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		05/09/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for PCB	Completed				05/20/23	MO/MO	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	05/15/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/15/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	139		%	1	05/15/23	JRB	50 - 150 %
% Terphenyl (surr)	125		%	1	05/15/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	380	ug/Kg	10	05/22/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/22/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/22/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/22/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/22/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/22/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/22/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/22/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/22/23	SC	SW8082A

QA/QC Surrogates

% DCBP	83		%	10	05/22/23	SC	30 - 150 %
% DCBP (Confirmation)	72		%	10	05/22/23	SC	30 - 150 %
% TCMX	71		%	10	05/22/23	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	05/22/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

11:00
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00639

Project ID: BRAINARD AIRPORT
 Client ID: HA-17 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		05/09/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for PCB	Completed				05/15/23	C/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	05/15/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/15/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	111		%	1	05/15/23	JRB	50 - 150 %
% Terphenyl (surr)	100		%	1	05/15/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	400	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	05/17/23	SC	SW8082A

QA/QC Surrogates

% DCBP	76		%	10	05/17/23	SC	30 - 150 %
% DCBP (Confirmation)	73		%	10	05/17/23	SC	30 - 150 %
% TCMX	62		%	10	05/17/23	SC	30 - 150 %
% TCMX (Confirmation)	67		%	10	05/17/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

05/08/23
05/09/23

Time

11:05
11:55

Laboratory Data

SDG ID: GCO00632
Phoenix ID: CO00640

Project ID: BRAINARD AIRPORT
Client ID: HA-18 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		05/09/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	05/15/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/15/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	127		%	1	05/15/23	JRB	50 - 150 %
% Terphenyl (surr)	122		%	1	05/15/23	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

05/08/23
05/09/23

Time

11:15
11:55

Laboratory Data

SDG ID: GCO00632
Phoenix ID: CO00641

Project ID: BRAINARD AIRPORT
Client ID: HA-19 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		05/09/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	45	mg/Kg	1	05/15/23	PS	CTETPH
Identification	ND		mg/Kg	1	05/15/23	PS	CTETPH

QA/QC Surrogates

% COD (surr)	119		%	1	05/15/23	PS	50 - 150 %
% Terphenyl (surr)	99		%	1	05/15/23	PS	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date Time
 05/08/23 11:20
 05/09/23 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00642

Project ID: BRAINARD AIRPORT
 Client ID: HA-41 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		05/09/23	CV	SW846-%Solid
Soil Extraction for Pesticide	Completed				05/12/23	C/M	SW3546

Pesticides

4,4' -DDD	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
4,4' -DDE	11	7.1	ug/Kg	2	05/15/23	AW	SW8081B
4,4' -DDT	9.5	7.1	ug/Kg	2	05/15/23	AW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Alachlor	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Aldrin	ND	3.5	ug/Kg	2	05/15/23	AW	SW8081B
b-BHC	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	05/15/23	AW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Dieldrin	4.3	3.5	ug/Kg	2	05/15/23	AW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Endrin	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/15/23	AW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	05/15/23	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	05/15/23	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/15/23	AW	SW8081B

QA/QC Surrogates

% DCBP	60		%	2	05/15/23	AW	30 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	54		%	2	05/15/23	AW	30 - 150 %
% TCMX	60		%	2	05/15/23	AW	30 - 150 %
% TCMX (Confirmation)	75		%	2	05/15/23	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

12:10
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00643

Project ID: BRAINARD AIRPORT
 Client ID: HA-43 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	25.1	0.43	mg/Kg	1	05/13/23	CPP	SW6010D
Percent Solid	79		%		05/09/23	CV	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	380	290	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	330	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	420	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	410	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	360	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	350	290	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	530	290	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	300	290	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	660	290	ug/Kg	1	05/13/23	KCA	SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	63		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	81		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	75		%	1	05/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: 5 Day
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

05/08/23
05/09/23

Time

12:11
11:55

Laboratory Data

SDG ID: GCO00632
Phoenix ID: CO00644

Project ID: BRAINARD AIRPORT
Client ID: HA-44 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	39.7	0.39	mg/Kg	1	05/13/23	CPP	SW6010D
SPLP Lead	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	76		%		05/09/23	CV	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	63		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	82		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	66		%	1	05/13/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date Time
 05/08/23 12:12
 05/09/23 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00645

Project ID: BRAINARD AIRPORT
 Client ID: HA-45 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	30.4	0.38	mg/Kg	1	05/13/23	CPP	SW6010D
Percent Solid	78		%		05/09/23	CV	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	350	290	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	340	290	ug/Kg	1	05/13/23	KCA	SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	70		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	92		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	79		%	1	05/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

12:13
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00646

Project ID: BRAINARD AIRPORT
 Client ID: HA-46 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	406	3.3	mg/Kg	10	05/17/23	TH	SW6010D
SPLP Lead	0.114	0.010	mg/L	1	06/27/23	IE	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	95		%		05/09/23	CV	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	800	250	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	630	250	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	1800	250	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	2400	250	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	3000	250	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	1800	250	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	900	250	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	1800	250	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	350	250	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	5100	250	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	250	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1800	250	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	2000	250	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	4400	250	ug/Kg	1	05/13/23	KCA	SW8270D

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	67		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	95		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	84		%	1	05/13/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

12:14
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00647

Project ID: BRAINARD AIRPORT
 Client ID: HA-47 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	387	4.1	mg/Kg	10	05/17/23	TH	SW6010D
SPLP Lead	0.062	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	84		%		05/09/23	CV	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	700	270	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	760	270	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	1900	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	4100	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	4600	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	5500	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	2800	270	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	1500	270	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	4200	270	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	580	270	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	10000	1400	ug/Kg	5	05/15/23	KCA	SW8270D
Fluorene	640	270	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	2800	270	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	280	270	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	10000	1400	ug/Kg	5	05/15/23	KCA	SW8270D
Pyrene	8800	1400	ug/Kg	5	05/15/23	KCA	SW8270D

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	66		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	95		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	82		%	1	05/13/23	KCA	30 - 130 %
% 2-Fluorobiphenyl (5x)	84		%	5	05/15/23	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	111		%	5	05/15/23	KCA	30 - 130 %
% Terphenyl-d14 (5x)	71		%	5	05/15/23	KCA	30 - 130 %

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

05/08/23
05/09/23

Time

9:45
11:55

Laboratory Data

SDG ID: GCO00632
Phoenix ID: CO00648

Project ID: BRAINARD AIRPORT
Client ID: B-134 (0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/08/23		SW5035A
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	05/17/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	95		%	5	05/17/23	JRB	50 - 150 %
% Terphenyl (surr)	83		%	5	05/17/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.42	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	21	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
4-Chlorotoluene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	21	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	210	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Bromobenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	2.5	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	25	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.5	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	8.5	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.5	ug/Kg	1	05/12/23	JLI	SW8260C
Toluene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.5	ug/Kg	1	05/12/23	JLI	SW8260C
Trichloroethene	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	8.5	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	4.2	ug/Kg	1	05/12/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	05/12/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/12/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	ND	240	ug/Kg	1	05/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	62		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	86		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	73		%	1	05/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

9:45
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00649

Project ID: BRAINARD AIRPORT
 Client ID: HA-14 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	80		%		05/09/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for PCB	Completed				05/15/23	C/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	310	mg/Kg	5	05/17/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	110		%	5	05/17/23	JRB	50 - 150 %
% Terphenyl (surr)	110		%	5	05/17/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	410	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	05/17/23	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	05/17/23	SC	SW8082A

QA/QC Surrogates

% DCBP	76		%	10	05/17/23	SC	30 - 150 %
% DCBP (Confirmation)	67		%	10	05/17/23	SC	30 - 150 %
% TCMX	58		%	10	05/17/23	SC	30 - 150 %
% TCMX (Confirmation)	63		%	10	05/17/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

10:00
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00650

Project ID: BRAINARD AIRPORT
 Client ID: HA-21 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/08/23		SW5035A
Extraction of ETPH	Completed				05/13/23	C/AW1	SW3546
Soil Extraction for SVOA PAH	Completed				05/12/23	MO/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	320	mg/Kg	5	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	69		%	5	05/16/23	JRB	50 - 150 %
% Terphenyl (surr)	78		%	5	05/16/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.60	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/12/23	JLI	SW8260C
Toluene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/12/23	JLI	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	05/12/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	05/12/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/12/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Anthracene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benz(a)anthracene	1200	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(a)pyrene	2100	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(b)fluoranthene	2400	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(ghi)perylene	1500	300	ug/Kg	1	05/13/23	KCA	SW8270D
Benzo(k)fluoranthene	820	300	ug/Kg	1	05/13/23	KCA	SW8270D
Chrysene	1300	300	ug/Kg	1	05/13/23	KCA	SW8270D
Dibenz(a,h)anthracene	380	300	ug/Kg	1	05/13/23	KCA	SW8270D
Fluoranthene	1900	300	ug/Kg	1	05/13/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1600	300	ug/Kg	1	05/13/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/13/23	KCA	SW8270D
Pyrene	1700	300	ug/Kg	1	05/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	63		%	1	05/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/13/23	KCA	30 - 130 %
% Terphenyl-d14	51		%	1	05/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

05/08/23
 05/09/23

Time

9:50
 11:55

Laboratory Data

SDG ID: GCO00632
 Phoenix ID: CO00651

Project ID: BRAINARD AIRPORT
 Client ID: HA-39 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/13/23	CPP	SW6010D
Arsenic	1.83	0.67	mg/Kg	1	05/13/23	CPP	SW6010D
Barium	49.2	0.34	mg/Kg	1	05/13/23	CPP	SW6010D
Beryllium	0.34	0.27	mg/Kg	1	05/13/23	CPP	SW6010D
Cadmium	1.35	0.34	mg/Kg	1	05/13/23	CPP	SW6010D
Chromium	15.0	0.34	mg/Kg	1	05/13/23	CPP	SW6010D
Copper	23.0	0.7	mg/kg	1	05/13/23	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/11/23	PM	SW7471B
Nickel	15.7	0.34	mg/Kg	1	05/13/23	CPP	SW6010D
Lead	11.9	0.34	mg/Kg	1	05/13/23	CPP	SW6010D
Antimony	< 3.4	3.4	mg/Kg	1	05/13/23	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	05/13/23	CPP	SW6010D
SPLP Vanadium	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
Thallium	< 3.0	3.0	mg/Kg	1	05/13/23	CPP	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Vanadium	35.8	0.34	mg/Kg	1	05/13/23	CPP	SW6010D
Zinc	86.4	0.7	mg/Kg	1	05/13/23	CPP	SW6010D
Percent Solid	91		%		05/09/23	CV	SW846-%Solid
Mercury Digestion	Completed				05/10/23	AL/AL	SW7471B
Soil Extraction for PCB	Completed				05/16/23	C/F	SW3546
Soil Extraction for Pesticide	Completed				05/16/23	C/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	05/18/23	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	370	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1260	530	370	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	05/18/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	98		%	10	05/18/23	SC	30 - 150 %
% DCBP (Confirmation)	98		%	10	05/18/23	SC	30 - 150 %
% TCMX	86		%	10	05/18/23	SC	30 - 150 %
% TCMX (Confirmation)	92		%	10	05/18/23	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
4,4' -DDE	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
4,4' -DDT	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	05/18/23	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	05/18/23	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Dieldrin	11	3.7	ug/Kg	2	05/18/23	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Endrin aldehyde	ND	15	ug/Kg	2	05/18/23	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/18/23	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	05/18/23	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	05/18/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/18/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	79		%	2	05/18/23	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	05/18/23	AW	30 - 150 %
% TCMX	66		%	2	05/18/23	AW	30 - 150 %
% TCMX (Confirmation)	72		%	2	05/18/23	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date: 05/08/23
Time: 05/09/23 11:55

Laboratory Data

SDG ID: GCO00632
Phoenix ID: CO00652

Project ID: BRAINARD AIRPORT
Client ID: TB050823L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/08/23		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/13/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/13/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/13/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/13/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/13/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/13/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/13/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/13/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/13/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/13/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/13/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	05/13/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98		%	1	05/13/23	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/13/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/13/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date: 05/08/23
Time: 05/09/23 11:55

Laboratory Data

SDG ID: GCO00632
Phoenix ID: CO00653

Project ID: BRAINARD AIRPORT
Client ID: TB050823H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/08/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/13/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/13/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/13/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/13/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/13/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/13/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/13/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/13/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/13/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/13/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/13/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/13/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/13/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	95		%	50	05/13/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	99		%	50	05/13/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	96		%	50	05/13/23	JLI	70 - 130 %
% Toluene-d8 (50x)	96		%	50	05/13/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 28, 2023

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 676989 (mg/kg), QC Sample No: CO00651 2X (CO00651)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	114	108	5.4	124	119	4.1	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 676879 (mg/kg), QC Sample No: CO00518 (CO00632, CO00633, CO00634, CO00635, CO00636, CO00637, CO00643, CO00644, CO00645, CO00646, CO00647, CO00651)

ICP Metals - Soil

Antimony	BRL	3.3	<4.2	<4.3	NC	105	94.5	10.5	75.9			75 - 125	35
Arsenic	BRL	0.67	9.93	10.8	8.40	101	92.2	9.1	88.5			75 - 125	35
Barium	BRL	0.33	72.6	75.6	4.00	118	104	12.6	101			75 - 125	35
Beryllium	BRL	0.27	0.84	0.88	NC	110	96.2	13.4	87.0			75 - 125	35
Cadmium	BRL	0.33	1.63	1.73	NC	110	94.9	14.7	91.2			75 - 125	35
Chromium	BRL	0.33	28.2	29.3	3.80	114	99.9	13.2	91.6			75 - 125	35
Copper	BRL	0.67	38.3	40.7	6.10	123	110	11.2	92.6			75 - 125	35
Lead	BRL	0.33	13.1	13.8	5.20	102	93.5	8.7	93.5			75 - 125	35
Nickel	BRL	0.33	24.1	25.1	4.10	111	96.3	14.2	91.5			75 - 125	35
Selenium	BRL	1.3	<1.7	<1.7	NC	84.1	108	24.9	90.6			75 - 125	35
Silver	BRL	0.33	<0.42	<0.43	NC	109	97.2	11.4	90.3			75 - 125	35
Thallium	BRL	3.0	<3.7	<3.8	NC	107	95.3	11.6	89.9			75 - 125	35
Vanadium	BRL	0.33	42.6	43.9	3.00	115	103	11.0	91.9			75 - 125	35
Zinc	BRL	0.67	53.1	55.0	3.50	108	98.2	9.5	92.6			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 683383 (mg/L), QC Sample No: CO00632 (CO00632, CO00634, CO00636, CO00637, CO00644, CO00646, CO00647, CO00651)

ICP Metals - SPLP Extraction

Lead	BRL	0.010	<0.010	<0.010	NC	101	100	1.0	99.8			80 - 120	20
Vanadium	BRL	0.010	<0.010	<0.010	NC	101	102	1.0	101			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 28, 2023

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 677623 (mg/Kg), QC Sample No: CO00243 (CO00632, CO00633, CO00634, CO00635, CO00636, CO00637, CO00638, CO00639, CO00640, CO00641, CO00648, CO00649, CO00650)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	95	96	1.0	93	138	39.0	60 - 120	30	r
% COD (surr)	84	%	104	101	2.9	98	170	53.7	50 - 150	30	m,r
% Terphenyl (surr)	87	%	103	103	0.0	80	115	35.9	50 - 150	30	r

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 677971 (ug/Kg), QC Sample No: CO04342 10X (CO00632, CO00633, CO00635)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	87	59	38.4	61	54	12.2	40 - 140	30	r
2,4,5-TP (Silvex)	ND	130	78	64	19.7	66	61	7.9	40 - 140	30	
2,4-D	ND	250	72	58	21.5	58	53	9.0	40 - 140	30	
2,4-DB	ND	2500	65	54	18.5	62	56	10.2	40 - 140	30	
Dalapon	ND	130	65	68	4.5	50	44	12.8	40 - 140	30	
Dicamba	ND	130	97	94	3.1	73	65	11.6	40 - 140	30	
Dichloroprop	ND	130	92	79	15.2	73	73	0.0	40 - 140	30	
Dinoseb	ND	130	88	83	5.8	58	57	1.7	40 - 140	30	
% DCAA (Surrogate Rec)	88	%	117	95	20.8	105	96	9.0	30 - 150	30	
% DCAA (Surrogate Rec) (Confirm)	84	%	107	93	14.0	100	86	15.1	30 - 150	30	

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 678187 (ug/Kg), QC Sample No: CO07515 10X (CO00636, CO00637)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	59	50	16.5	60	72	18.2	40 - 140	30	
2,4,5-TP (Silvex)	ND	130	60	53	12.4	63	63	0.0	40 - 140	30	
2,4-D	ND	250	53	44	18.6	54	57	5.4	40 - 140	30	
2,4-DB	ND	2500	48	41	15.7	66	58	12.9	40 - 140	30	
Dalapon	ND	130	68	64	6.1	54	58	7.1	40 - 140	30	
Dicamba	ND	130	83	87	4.7	87	86	1.2	40 - 140	30	
Dichloroprop	ND	130	71	64	10.4	81	76	6.4	40 - 140	30	
Dinoseb	ND	130	70	65	7.4	69	79	13.5	40 - 140	30	
% DCAA (Surrogate Rec)	71	%	93	79	16.3	95	97	2.1	30 - 150	30	
% DCAA (Surrogate Rec) (Confirm)	75	%	91	78	15.4	93	89	4.4	30 - 150	30	

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 678761 (ug/Kg), QC Sample No: CO04826 2X (CO00638)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	87	84	3.5	83	80	3.7	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	86	82	4.8	75	72	4.1	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	73	%	94	93	1.1	84	78	7.4	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	101	%	100	94	6.2	79	73	7.9	30 - 150	30
% TCMX (Surrogate Rec)	68	%	93	82	12.6	82	75	8.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	85	%	88	88	0.0	84	84	0.0	30 - 150	30

QA/QC Batch 677759 (ug/Kg), QC Sample No: CO05834 2X (CO00639, CO00649)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	77	58	28.1	55	58	5.3	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	79	70	12.1	66	68	3.0	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	73	%	83	71	15.6	65	65	0.0	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	81	%	91	72	23.3	66	66	0.0	30 - 150	30
% TCMX (Surrogate Rec)	67	%	78	57	31.1	53	54	1.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	65	%	78	67	15.2	64	64	0.0	30 - 150	30

QA/QC Batch 677995 (ug/Kg), QC Sample No: CO05882 2X (CO00651)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	72	80	10.5	61	75	20.6	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	85	94	10.1	69	79	13.5	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	78	%	88	94	6.6	65	76	15.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	73	%	84	87	3.5	61	72	16.5	30 - 150	30
% TCMX (Surrogate Rec)	50	%	67	73	8.6	55	65	16.7	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	74	%	86	91	5.6	69	83	18.4	30 - 150	30

QA/QC Batch 677131 (ug/Kg), QC Sample No: CO00632 2X (CO00632, CO00633)

Pesticides - Soil

4,4' -DDD	ND	1.7	93	92	1.1	85	75	12.5	40 - 140	30
4,4' -DDE	ND	1.7	96	94	2.1	93	78	17.5	40 - 140	30
4,4' -DDT	ND	1.7	111	108	2.7	107	88	19.5	40 - 140	30
a-BHC	ND	1.0	88	84	4.7	90	78	14.3	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	87	85	2.3	83	70	17.0	40 - 140	30
b-BHC	ND	1.0	84	82	2.4	85	72	16.6	40 - 140	30
Chlordane	ND	33	98	96	2.1	95	81	15.9	40 - 140	30

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
d-BHC	ND	3.3	97	76	24.3	89	78	13.2	40 - 140	30
Dieldrin	ND	1.0	97	95	2.1	91	77	16.7	40 - 140	30
Endosulfan I	ND	3.3	97	90	7.5	83	72	14.2	40 - 140	30
Endosulfan II	ND	3.3	111	104	6.5	94	88	6.6	40 - 140	30
Endosulfan sulfate	ND	3.3	98	94	4.2	96	80	18.2	40 - 140	30
Endrin	ND	3.3	114	113	0.9	112	94	17.5	40 - 140	30
Endrin aldehyde	ND	3.3	89	83	7.0	70	56	22.2	40 - 140	30
Endrin ketone	ND	3.3	96	92	4.3	86	73	16.4	40 - 140	30
g-BHC	ND	1.0	89	86	3.4	89	76	15.8	40 - 140	30
Heptachlor	ND	3.3	90	86	4.5	86	72	17.7	40 - 140	30
Heptachlor epoxide	ND	3.3	88	86	2.3	85	72	16.6	40 - 140	30
Methoxychlor	ND	3.3	94	93	1.1	89	76	15.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	79	%	86	84	2.4	79	65	19.4	30 - 150	30
% DCBP (Confirmation)	81	%	87	87	0.0	85	65	26.7	30 - 150	30
% TCMX	71	%	78	79	1.3	79	67	16.4	30 - 150	30
% TCMX (Confirmation)	75	%	82	85	3.6	88	73	18.6	30 - 150	30

QA/QC Batch 677578 (ug/Kg), QC Sample No: CO01173 2X (CO00635, CO00636, CO00642)

Pesticides - Soil

4,4' -DDD	ND	1.7	82	83	1.2	78	72	8.0	40 - 140	30
4,4' -DDE	ND	1.7	65	85	26.7	78	72	8.0	40 - 140	30
4,4' -DDT	ND	1.7	79	84	6.1	78	71	9.4	40 - 140	30
a-BHC	ND	1.0	74	66	11.4	69	65	6.0	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	76	86	12.3	82	76	7.6	40 - 140	30
b-BHC	ND	1.0	88	79	10.8	77	72	6.7	40 - 140	30
Chlordane	ND	33	79	88	10.8	84	79	6.1	40 - 140	30
d-BHC	ND	3.3	58	30	63.6	64	59	8.1	40 - 140	30
Dieldrin	ND	1.0	76	88	14.6	82	76	7.6	40 - 140	30
Endosulfan I	ND	3.3	80	85	6.1	85	77	9.9	40 - 140	30
Endosulfan II	ND	3.3	83	92	10.3	87	80	8.4	40 - 140	30
Endosulfan sulfate	ND	3.3	78	92	16.5	83	76	8.8	40 - 140	30
Endrin	ND	3.3	76	89	15.8	82	76	7.6	40 - 140	30
Endrin aldehyde	ND	3.3	74	82	10.3	75	70	6.9	40 - 140	30
Endrin ketone	ND	3.3	74	93	22.8	83	76	8.8	40 - 140	30
g-BHC	ND	1.0	75	81	7.7	77	73	5.3	40 - 140	30
Heptachlor	ND	3.3	83	81	2.4	77	73	5.3	40 - 140	30
Heptachlor epoxide	ND	3.3	75	90	18.2	82	77	6.3	40 - 140	30
Methoxychlor	ND	3.3	81	84	3.6	78	71	9.4	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	71	%	67	80	17.7	79	74	6.5	30 - 150	30
% DCBP (Confirmation)	63	%	75	80	6.5	74	67	9.9	30 - 150	30
% TCMX	65	%	76	81	6.4	76	73	4.0	30 - 150	30
% TCMX (Confirmation)	72	%	73	91	22.0	84	80	4.9	30 - 150	30

QA/QC Batch 678220 (ug/Kg), QC Sample No: CO04889 2X (CO00634, CO00637)

Pesticides - Soil

4,4' -DDD	ND	1.7	71	64	10.4	64	86	29.3	40 - 140	30
4,4' -DDE	ND	1.7	75	66	12.8	68	58	15.9	40 - 140	30
4,4' -DDT	ND	1.7	67	62	7.8	62	59	5.0	40 - 140	30
a-BHC	ND	1.0	73	67	8.6	65	63	3.1	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	80	73	9.2	74	67	9.9	40 - 140	30

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	BLK RL								
b-BHC	ND	1.0	76	69	9.7	67	58	14.4	40 - 140	30
Chlordane	ND	33	78	72	8.0	72	63	13.3	40 - 140	30
d-BHC	ND	3.3	66	67	1.5	56	49	13.3	40 - 140	30
Dieldrin	ND	1.0	81	70	14.6	71	61	15.2	40 - 140	30
Endosulfan I	ND	3.3	82	71	14.4	73	63	14.7	40 - 140	30
Endosulfan II	ND	3.3	90	73	20.9	73	65	11.6	40 - 140	30
Endosulfan sulfate	ND	3.3	87	72	18.9	67	61	9.4	40 - 140	30
Endrin	ND	3.3	73	66	10.1	68	65	4.5	40 - 140	30
Endrin aldehyde	ND	3.3	67	62	7.8	58	57	1.7	40 - 140	30
Endrin ketone	ND	3.3	79	67	16.4	69	62	10.7	40 - 140	30
g-BHC	ND	1.0	73	76	4.0	80	70	13.3	40 - 140	30
Heptachlor	ND	3.3	74	72	2.7	74	66	11.4	40 - 140	30
Heptachlor epoxide	ND	3.3	83	74	11.5	73	65	11.6	40 - 140	30
Methoxychlor	ND	3.3	74	60	20.9	62	57	8.4	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	71	%	76	61	21.9	63	57	10.0	30 - 150	30
% DCBP (Confirmation)	77	%	75	70	6.9	72	63	13.3	30 - 150	30
% TCMX	68	%	73	73	0.0	74	68	8.5	30 - 150	30
% TCMX (Confirmation)	78	%	77	81	5.1	90	83	8.1	30 - 150	30

QA/QC Batch 677999 (ug/Kg), QC Sample No: CO05882 2X (CO00651)

Pesticides - Soil

4,4' -DDD	ND	1.7	79	82	3.7	80	82	2.5	40 - 140	30
4,4' -DDE	ND	1.7	79	84	6.1	78	83	6.2	40 - 140	30
4,4' -DDT	ND	1.7	82	87	5.9	83	100	18.6	40 - 140	30
a-BHC	ND	1.0	72	77	6.7	67	67	0.0	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	84	86	2.4	78	77	1.3	40 - 140	30
b-BHC	ND	1.0	77	78	1.3	73	78	6.6	40 - 140	30
Chlordane	ND	33	83	86	3.6	92	95	3.2	40 - 140	30
d-BHC	ND	3.3	60	63	4.9	55	58	5.3	40 - 140	30
Dieldrin	ND	1.0	82	87	5.9	77	78	1.3	40 - 140	30
Endosulfan I	ND	3.3	84	83	1.2	80	81	1.2	40 - 140	30
Endosulfan II	ND	3.3	85	89	4.6	79	82	3.7	40 - 140	30
Endosulfan sulfate	ND	3.3	90	96	6.5	74	82	10.3	40 - 140	30
Endrin	ND	3.3	84	88	4.7	78	85	8.6	40 - 140	30
Endrin aldehyde	ND	3.3	79	83	4.9	58	64	9.8	40 - 140	30
Endrin ketone	ND	3.3	79	84	6.1	76	81	6.4	40 - 140	30
g-BHC	ND	1.0	78	80	2.5	80	92	14.0	40 - 140	30
Heptachlor	ND	3.3	80	82	2.5	71	73	2.8	40 - 140	30
Heptachlor epoxide	ND	3.3	83	86	3.6	77	85	9.9	40 - 140	30
Methoxychlor	ND	3.3	75	80	6.5	71	79	10.7	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	75	%	74	79	6.5	69	69	0.0	30 - 150	30
% DCBP (Confirmation)	67	%	68	73	7.1	66	69	4.4	30 - 150	30
% TCMX	75	%	78	80	2.5	72	73	1.4	30 - 150	30
% TCMX (Confirmation)	84	%	86	88	2.3	80	83	3.7	30 - 150	30

QA/QC Batch 677399 (ug/kg), QC Sample No: CO00317 (CO00632, CO00633, CO00634, CO00635, CO00636, CO00643, CO00644, CO00645, CO00646, CO00647, CO00648)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	51	49	4.0	51	56	9.3	40 - 140	30
Acenaphthene	ND	230	56	53	5.5	55	60	8.7	30 - 130	30
Acenaphthylene	ND	230	53	49	7.8	52	57	9.2	40 - 140	30

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Anthracene	ND	230	56	55	1.8	58	64	9.8	40 - 140	30
Benz(a)anthracene	ND	230	56	54	3.6	58	63	8.3	40 - 140	30
Benzo(a)pyrene	ND	230	64	60	6.5	65	72	10.2	40 - 140	30
Benzo(b)fluoranthene	ND	230	58	54	7.1	58	64	9.8	40 - 140	30
Benzo(ghi)perylene	ND	230	62	59	5.0	61	70	13.7	40 - 140	30
Benzo(k)fluoranthene	ND	230	52	50	3.9	53	59	10.7	40 - 140	30
Chrysene	ND	230	56	53	5.5	60	65	8.0	40 - 140	30
Dibenz(a,h)anthracene	ND	230	64	60	6.5	63	72	13.3	40 - 140	30
Fluoranthene	ND	230	59	54	8.8	63	65	3.1	40 - 140	30
Fluorene	ND	230	62	58	6.7	64	68	6.1	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	66	62	6.3	66	74	11.4	40 - 140	30
Naphthalene	ND	230	49	47	4.2	49	53	7.8	40 - 140	30
Phenanthrene	ND	230	56	54	3.6	57	63	10.0	40 - 140	30
Pyrene	ND	230	60	55	8.7	63	66	4.7	30 - 130	30
% 2-Fluorobiphenyl	38	%	51	50	2.0	52	57	9.2	30 - 130	30
% Nitrobenzene-d5	38	%	57	54	5.4	53	59	10.7	30 - 130	30
% Terphenyl-d14	47	%	52	49	5.9	54	58	7.1	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 677497 (ug/kg), QC Sample No: CO01040 (CO00650)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	47	57	19.2	55	64	15.1	40 - 140	30
Acenaphthene	ND	230	46	56	19.6	55	63	13.6	30 - 130	30
Acenaphthylene	ND	230	45	55	20.0	54	62	13.8	40 - 140	30
Anthracene	ND	230	49	60	20.2	57	67	16.1	40 - 140	30
Benz(a)anthracene	ND	230	43	54	22.7	52	62	17.5	40 - 140	30
Benzo(a)pyrene	ND	230	52	65	22.2	63	73	14.7	40 - 140	30
Benzo(b)fluoranthene	ND	230	46	57	21.4	55	64	15.1	40 - 140	30
Benzo(ghi)perylene	ND	230	57	73	24.6	71	78	9.4	40 - 140	30
Benzo(k)fluoranthene	ND	230	44	54	20.4	49	57	15.1	40 - 140	30
Chrysene	ND	230	46	58	23.1	56	67	17.9	40 - 140	30
Dibenz(a,h)anthracene	ND	230	56	69	20.8	66	74	11.4	40 - 140	30
Fluoranthene	ND	230	48	58	18.9	57	66	14.6	40 - 140	30
Fluorene	ND	230	52	63	19.1	62	71	13.5	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	57	72	23.3	67	75	11.3	40 - 140	30
Naphthalene	ND	230	51	60	16.2	58	68	15.9	40 - 140	30
Phenanthrene	ND	230	48	59	20.6	59	67	12.7	40 - 140	30
Pyrene	ND	230	47	57	19.2	56	63	11.8	30 - 130	30
% 2-Fluorobiphenyl	54	%	45	54	18.2	53	60	12.4	30 - 130	30
% Nitrobenzene-d5	53	%	44	52	16.7	48	57	17.1	30 - 130	30
% Terphenyl-d14	49	%	44	53	18.6	49	55	11.5	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 677721 (ug/kg), QC Sample No: CO00632 (CO00632, CO00633, CO00634, CO00635, CO00636, CO00637, CO00648, CO00650)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	112	115	2.6				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	103	108	4.7				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	107	108	0.9				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	104	106	1.9				70 - 130	30

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	BLK RL								
1,1-Dichloroethane	ND	5.0	103	109	5.7				70 - 130	30
1,1-Dichloroethene	ND	5.0	101	109	7.6				70 - 130	30
1,1-Dichloropropene	ND	5.0	108	110	1.8				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	102	107	4.8				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	106	106	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	97	105	7.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	103	109	5.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	112	113	0.9				70 - 130	30
1,2-Dibromoethane	ND	5.0	109	109	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	101	104	2.9				70 - 130	30
1,2-Dichloroethane	ND	5.0	98	99	1.0				70 - 130	30
1,2-Dichloropropane	ND	5.0	102	106	3.8				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	106	112	5.5				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	99	104	4.9				70 - 130	30
1,3-Dichloropropane	ND	5.0	108	110	1.8				70 - 130	30
1,4-Dichlorobenzene	ND	5.0	98	104	5.9				70 - 130	30
1,4-dioxane	ND	100	93	99	6.3				70 - 130	30
2,2-Dichloropropane	ND	5.0	99	104	4.9				70 - 130	30
2-Chlorotoluene	ND	5.0	107	113	5.5				70 - 130	30
2-Hexanone	ND	25	111	110	0.9				70 - 130	30
2-Isopropyltoluene	ND	5.0	105	110	4.7				70 - 130	30
4-Chlorotoluene	ND	5.0	104	111	6.5				70 - 130	30
4-Methyl-2-pentanone	ND	25	109	108	0.9				70 - 130	30
Acetone	ND	10	90	91	1.1				70 - 130	30
Acrylonitrile	ND	5.0	102	105	2.9				70 - 130	30
Benzene	ND	1.0	106	108	1.9				70 - 130	30
Bromobenzene	ND	5.0	105	108	2.8				70 - 130	30
Bromochloromethane	ND	5.0	102	104	1.9				70 - 130	30
Bromodichloromethane	ND	5.0	104	106	1.9				70 - 130	30
Bromoform	ND	5.0	111	112	0.9				70 - 130	30
Bromomethane	ND	5.0	96	100	4.1				70 - 130	30
Carbon Disulfide	ND	5.0	95	100	5.1				70 - 130	30
Carbon tetrachloride	ND	5.0	106	112	5.5				70 - 130	30
Chlorobenzene	ND	5.0	102	106	3.8				70 - 130	30
Chloroethane	ND	5.0	100	105	4.9				70 - 130	30
Chloroform	ND	5.0	101	103	2.0				70 - 130	30
Chloromethane	ND	5.0	98	101	3.0				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	111	112	0.9				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	110	113	2.7				70 - 130	30
Dibromochloromethane	ND	3.0	109	115	5.4				70 - 130	30
Dibromomethane	ND	5.0	103	104	1.0				70 - 130	30
Dichlorodifluoromethane	ND	5.0	89	92	3.3				70 - 130	30
Ethylbenzene	ND	1.0	103	106	2.9				70 - 130	30
Hexachlorobutadiene	ND	5.0	97	105	7.9				70 - 130	30
Isopropylbenzene	ND	1.0	110	116	5.3				70 - 130	30
m&p-Xylene	ND	2.0	105	109	3.7				70 - 130	30
Methyl ethyl ketone	ND	5.0	101	101	0.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	97	103	6.0				70 - 130	30
Methylene chloride	ND	5.0	94	99	5.2				70 - 130	30
Naphthalene	ND	5.0	116	119	2.6				70 - 130	30
n-Butylbenzene	ND	1.0	105	113	7.3				70 - 130	30
n-Propylbenzene	ND	1.0	107	112	4.6				70 - 130	30
o-Xylene	ND	2.0	106	110	3.7				70 - 130	30

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
p-Isopropyltoluene	ND	1.0	107	113	5.5				70 - 130	30
sec-Butylbenzene	ND	1.0	109	114	4.5				70 - 130	30
Styrene	ND	5.0	94	98	4.2				70 - 130	30
tert-Butylbenzene	ND	1.0	109	112	2.7				70 - 130	30
Tetrachloroethene	ND	5.0	98	102	4.0				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	106	108	1.9				70 - 130	30
Toluene	ND	1.0	101	106	4.8				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	101	108	6.7				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	113	115	1.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	132	134	1.5				70 - 130	30
Trichloroethene	ND	5.0	103	105	1.9				70 - 130	30
Trichlorofluoromethane	ND	5.0	97	102	5.0				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	87	93	6.7				70 - 130	30
Vinyl chloride	ND	5.0	102	106	3.8				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0				70 - 130	30
% Bromofluorobenzene	95	%	97	96	1.0				70 - 130	30
% Dibromofluoromethane	97	%	96	96	0.0				70 - 130	30
% Toluene-d8	100	%	100	99	1.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677699 (ug/kg), QC Sample No: CO04404 (CO00652)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	115	113	1.8	104	104	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	108	106	1.9	103	103	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	99	96	3.1	97	93	4.2	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	102	102	0.0	96	91	5.3	70 - 130	30
1,1-Dichloroethane	ND	5.0	97	97	0.0	86	85	1.2	70 - 130	30
1,1-Dichloroethene	ND	5.0	95	94	1.1	82	83	1.2	70 - 130	30
1,1-Dichloropropene	ND	5.0	107	103	3.8	100	95	5.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	101	100	1.0	66	57	14.6	70 - 130	30 m
1,2,3-Trichloropropane	ND	5.0	102	100	2.0	98	93	5.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	93	90	3.3	64	58	9.8	70 - 130	30 m
1,2,4-Trimethylbenzene	ND	1.0	101	98	3.0	88	84	4.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	127	121	4.8	118	107	9.8	70 - 130	30
1,2-Dibromoethane	ND	5.0	107	106	0.9	102	99	3.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	99	98	1.0	84	77	8.7	70 - 130	30
1,2-Dichloroethane	ND	5.0	107	107	0.0	102	99	3.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	105	102	2.9	98	97	1.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	101	98	3.0	89	85	4.6	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	97	94	3.1	80	76	5.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	104	103	1.0	98	96	2.1	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	97	94	3.1	81	76	6.4	70 - 130	30
2,2-Dichloropropane	ND	5.0	108	114	5.4	102	100	2.0	70 - 130	30
2-Chlorotoluene	ND	5.0	102	99	3.0	91	87	4.5	70 - 130	30
2-Hexanone	ND	25	106	104	1.9	84	78	7.4	70 - 130	30
2-Isopropyltoluene	ND	5.0	102	99	3.0	85	81	4.8	70 - 130	30
4-Chlorotoluene	ND	5.0	99	96	3.1	87	83	4.7	70 - 130	30
4-Methyl-2-pentanone	ND	25	106	105	0.9	96	89	7.6	70 - 130	30
Acetone	ND	10	83	84	1.2	67	64	4.6	70 - 130	30 m
Acrylonitrile	ND	5.0	92	95	3.2	68	63	7.6	70 - 130	30 m

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Benzene	ND	1.0	103	102	1.0	98	96	2.1	70 - 130	30
Bromobenzene	ND	5.0	105	103	1.9	95	92	3.2	70 - 130	30
Bromochloromethane	ND	5.0	99	115	15.0	97	92	5.3	70 - 130	30
Bromodichloromethane	ND	5.0	109	107	1.9	100	99	1.0	70 - 130	30
Bromoform	ND	5.0	112	108	3.6	95	94	1.1	70 - 130	30
Bromomethane	ND	5.0	93	91	2.2	85	85	0.0	70 - 130	30
Carbon Disulfide	ND	5.0	85	88	3.5	73	75	2.7	70 - 130	30
Carbon tetrachloride	ND	5.0	112	112	0.0	100	100	0.0	70 - 130	30
Chlorobenzene	ND	5.0	98	98	0.0	90	88	2.2	70 - 130	30
Chloroethane	ND	5.0	95	97	2.1	83	86	3.6	70 - 130	30
Chloroform	ND	5.0	99	101	2.0	94	93	1.1	70 - 130	30
Chloromethane	ND	5.0	88	86	2.3	79	78	1.3	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	90	101	11.5	86	84	2.4	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	115	115	0.0	108	104	3.8	70 - 130	30
Dibromochloromethane	ND	3.0	111	111	0.0	100	100	0.0	70 - 130	30
Dibromomethane	ND	5.0	107	107	0.0	102	99	3.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	87	81	7.1	74	72	2.7	70 - 130	30
Ethylbenzene	ND	1.0	94	92	2.2	86	84	2.4	70 - 130	30
Hexachlorobutadiene	ND	5.0	98	94	4.2	54	51	5.7	70 - 130	30
Isopropylbenzene	ND	1.0	104	100	3.9	94	91	3.2	70 - 130	30
m&p-Xylene	ND	2.0	98	95	3.1	89	86	3.4	70 - 130	30
Methyl ethyl ketone	ND	5.0	91	92	1.1	79	73	7.9	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	100	2.0	90	87	3.4	70 - 130	30
Methylene chloride	ND	5.0	87	89	2.3	77	77	0.0	70 - 130	30
Naphthalene	ND	5.0	110	111	0.9	85	74	13.8	70 - 130	30
n-Butylbenzene	ND	1.0	104	98	5.9	76	71	6.8	70 - 130	30
n-Propylbenzene	ND	1.0	101	96	5.1	87	85	2.3	70 - 130	30
o-Xylene	ND	2.0	101	99	2.0	92	90	2.2	70 - 130	30
p-Isopropyltoluene	ND	1.0	105	100	4.9	83	79	4.9	70 - 130	30
sec-Butylbenzene	ND	1.0	102	98	4.0	82	79	3.7	70 - 130	30
Styrene	ND	5.0	81	80	1.2	72	70	2.8	70 - 130	30
tert-Butylbenzene	ND	1.0	103	102	1.0	90	87	3.4	70 - 130	30
Tetrachloroethene	ND	5.0	100	95	5.1	88	84	4.7	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	95	93	2.1	90	84	6.9	70 - 130	30
Toluene	ND	1.0	103	101	2.0	95	93	2.1	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	97	94	3.1	84	82	2.4	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	126	125	0.8	116	110	5.3	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	131	127	3.1	114	108	5.4	70 - 130	30
Trichloroethene	ND	5.0	106	103	2.9	95	93	2.1	70 - 130	30
Trichlorofluoromethane	ND	5.0	92	94	2.2	81	80	1.2	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	86	82	4.8	74	72	2.7	70 - 130	30
Vinyl chloride	ND	5.0	91	89	2.2	82	81	1.2	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	101	102	1.0	101	100	1.0	70 - 130	30
% Bromofluorobenzene	100	%	101	101	0.0	101	100	1.0	70 - 130	30
% Dibromofluoromethane	101	%	98	98	0.0	102	101	1.0	70 - 130	30
% Toluene-d8	97	%	103	104	1.0	103	102	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677699H (ug/kg), QC Sample No: CO04404 50X (CO00653 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	108	105	2.8	101	105	3.9	70 - 130	30
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QA/QC Data

SDG I.D.: GCO00632

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
1,1,1-Trichloroethane	ND	250	100	101	1.0	100	106	5.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	100	99	1.0	99	102	3.0	70 - 130	30	
1,1,2-Trichloroethane	ND	250	102	103	1.0	99	101	2.0	70 - 130	30	
1,1-Dichloroethane	ND	250	91	92	1.1	85	89	4.6	70 - 130	30	
1,1-Dichloroethene	ND	250	88	91	3.4	86	87	1.2	70 - 130	30	
1,1-Dichloropropene	ND	250	109	112	2.7	109	117	7.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	106	106	0.0	104	110	5.6	70 - 130	30	
1,2,3-Trichloropropane	ND	250	96	98	2.1	99	103	4.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	102	104	1.9	103	107	3.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	103	104	1.0	104	110	5.6	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	115	108	6.3	147	126	15.4	70 - 130	30	m
1,2-Dibromoethane	ND	250	106	107	0.9	103	107	3.8	70 - 130	30	
1,2-Dichlorobenzene	ND	250	103	104	1.0	103	107	3.8	70 - 130	30	
1,2-Dichloroethane	ND	250	105	108	2.8	105	108	2.8	70 - 130	30	
1,2-Dichloropropane	ND	250	104	104	0.0	104	107	2.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	102	104	1.9	105	110	4.7	70 - 130	30	
1,3-Dichlorobenzene	ND	250	100	102	2.0	102	106	3.8	70 - 130	30	
1,3-Dichloropropane	ND	250	103	103	0.0	102	105	2.9	70 - 130	30	
1,4-Dichlorobenzene	ND	250	102	104	1.9	103	108	4.7	70 - 130	30	
2,2-Dichloropropane	ND	250	109	111	1.8	93	104	11.2	70 - 130	30	
2-Chlorotoluene	ND	250	100	103	3.0	104	108	3.8	70 - 130	30	
2-Hexanone	ND	1300	104	102	1.9	105	104	1.0	70 - 130	30	
2-Isopropyltoluene	ND	250	103	105	1.9	107	112	4.6	70 - 130	30	
4-Chlorotoluene	ND	250	101	102	1.0	103	108	4.7	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	107	106	0.9	106	107	0.9	70 - 130	30	
Acetone	ND	500	77	72	6.7	66	67	1.5	70 - 130	30	m
Acrylonitrile	ND	250	89	88	1.1	89	85	4.6	70 - 130	30	
Benzene	ND	250	104	108	3.8	106	109	2.8	70 - 130	30	
Bromobenzene	ND	250	102	102	0.0	104	108	3.8	70 - 130	30	
Bromochloromethane	ND	250	105	108	2.8	98	98	0.0	70 - 130	30	
Bromodichloromethane	ND	250	102	102	0.0	98	103	5.0	70 - 130	30	
Bromoform	ND	250	98	91	7.4	86	91	5.6	70 - 130	30	
Bromomethane	ND	250	50	54	7.7	48	51	6.1	70 - 130	30	l,m
Carbon Disulfide	ND	250	81	81	0.0	74	77	4.0	70 - 130	30	
Carbon tetrachloride	ND	250	98	107	8.8	89	98	9.6	70 - 130	30	
Chlorobenzene	ND	250	101	102	1.0	103	105	1.9	70 - 130	30	
Chloroethane	ND	250	16	16	0.0	16	17	6.1	70 - 130	30	l,m
Chloroform	ND	250	96	96	0.0	97	99	2.0	70 - 130	30	
Chloromethane	ND	250	87	86	1.2	89	91	2.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	95	95	0.0	88	91	3.4	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	110	111	0.9	106	111	4.6	70 - 130	30	
Dibromochloromethane	ND	150	103	100	3.0	95	99	4.1	70 - 130	30	
Dibromomethane	ND	250	107	107	0.0	105	108	2.8	70 - 130	30	
Dichlorodifluoromethane	ND	250	84	87	3.5	89	93	4.4	70 - 130	30	
Ethylbenzene	ND	250	97	100	3.0	100	101	1.0	70 - 130	30	
Hexachlorobutadiene	ND	250	105	107	1.9	111	113	1.8	70 - 130	30	
Isopropylbenzene	ND	250	102	105	2.9	105	112	6.5	70 - 130	30	
m&p-Xylene	ND	250	102	103	1.0	104	106	1.9	70 - 130	30	
Methyl ethyl ketone	ND	250	89	89	0.0	94	92	2.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	97	94	3.1	90	89	1.1	70 - 130	30	
Methylene chloride	ND	250	83	84	1.2	79	81	2.5	70 - 130	30	
Naphthalene	ND	250	113	112	0.9	111	118	6.1	70 - 130	30	
n-Butylbenzene	ND	250	111	113	1.8	113	118	4.3	70 - 130	30	

QA/QC Data

SDG I.D.: GCO00632

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
n-Propylbenzene	ND	250	101	104	2.9	105	112	6.5	70 - 130	30
o-Xylene	ND	250	103	105	1.9	105	107	1.9	70 - 130	30
p-Isopropyltoluene	ND	250	109	111	1.8	112	118	5.2	70 - 130	30
sec-Butylbenzene	ND	250	104	107	2.8	108	114	5.4	70 - 130	30
Styrene	ND	250	83	84	1.2	85	85	0.0	70 - 130	30
tert-Butylbenzene	ND	250	104	107	2.8	108	114	5.4	70 - 130	30
Tetrachloroethene	ND	250	105	108	2.8	110	113	2.7	70 - 130	30
Tetrahydrofuran (THF)	ND	250	96	94	2.1	96	94	2.1	70 - 130	30
Toluene	ND	250	105	109	3.7	108	111	2.7	70 - 130	30
trans-1,2-Dichloroethene	ND	250	92	89	3.3	87	87	0.0	70 - 130	30
trans-1,3-Dichloropropene	ND	250	116	114	1.7	109	117	7.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	115	112	2.6	106	113	6.4	70 - 130	30
Trichloroethene	ND	250	104	105	1.0	102	110	7.5	70 - 130	30
Trichlorofluoromethane	ND	250	15	15	0.0	15	16	6.5	70 - 130	30
Trichlorotrifluoroethane	ND	250	82	84	2.4	83	83	0.0	70 - 130	30
Vinyl chloride	ND	250	80	80	0.0	83	86	3.6	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	102	102	0.0	101	103	2.0	70 - 130	30
% Bromofluorobenzene	99	%	103	103	0.0	101	102	1.0	70 - 130	30
% Dibromofluoromethane	94	%	95	97	2.1	95	95	0.0	70 - 130	30
% Toluene-d8	97	%	103	105	1.9	104	104	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

June 28, 2023

Wednesday, June 28, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO00632 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO00634	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	3000	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2100	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3000	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5000	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Benzo(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2100	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2000	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3300	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Benzo(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2100	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3000	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	5000	280	1000	1000	ug/Kg
CO00634	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1400	280	1000	1000	ug/Kg
CO00646	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2400	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3000	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2400	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Benzo(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1800	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2400	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3000	250	1000	1000	ug/Kg
CO00646	\$8100SMR	Benzo(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1800	250	1000	1000	ug/Kg
CO00646	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	406	3.3	400	400	mg/Kg
CO00647	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	4600	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2800	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4600	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5500	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Benzo(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4100	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2800	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2800	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	4200	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Benzo(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	4100	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	4600	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	5500	270	1000	1000	ug/Kg
CO00647	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1500	270	1000	1000	ug/Kg
CO00650	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2100	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1600	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2400	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	300	1000	1000	ug/Kg

Wednesday, June 28, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO00632 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO00650	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1200	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1500	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1300	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1600	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2100	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2400	300	1000	1000	ug/Kg
CO00650	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1200	300	1000	1000	ug/Kg
CO00651	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	11	3.7	7	7	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO00632-CO00653

Sampling Date(s): 5/8/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8082, 8151, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: Herbicide Narration, PCB Narration, PEST Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Wednesday, June 28, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO00632

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported for some of the samples: Antimony, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 05/15/23-1 Jeff Bucko, Chemist 05/15/23

CO00636 (1X), CO00637 (1X), CO00638 (1X), CO00639 (1X), CO00640 (1X), CO00641 (1X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (515A003) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 05/15/23-1 Jeff Bucko, Chemist 05/15/23

CO00632 (1X), CO00633 (5X), CO00634 (5X), CO00650 (5X)

The initial calibration (ETPH510I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (515A003) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 05/15/23-1 Jeff Bucko, Chemist 05/15/23

CO00635 (5X), CO00648 (5X), CO00649 (5X)

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (515A003_2) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 677623 (CO00243)

CO00632, CO00633, CO00634, CO00635, CO00636, CO00637, CO00638, CO00639, CO00640, CO00641, CO00648, CO00649, CO00650

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Herbicide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677971 (Samples: CO00632, CO00633, CO00635): -----

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s). No significant variability is suspected. (2,4,5-T)



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RCP Certification Report

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SDG I.D.: GCO00632

Herbicide Narration

Instrument:

AU-ECD2 05/17/23-1 Jeff Bucko, Chemist 05/17/23

CO00632 (10X), CO00633 (10X), CO00635 (10X)

The initial calibration (HRB504AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRB504BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD2 05/18/23-1 Jeff Bucko, Chemist 05/18/23

CO00636 (10X), CO00637 (10X)

The initial calibration (HRB504AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRB504BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 677971 (CO04342)

CO00632, CO00633, CO00635

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4,5-T(38.4%)
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 678187 (CO07515)

CO00636, CO00637

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/11/23 09:23 Paul Marshall, Chemist 05/11/23

CO00651

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Site Specific):

Batch 676989 (CO00651)



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Certification Report

June 28, 2023

SDG I.D.: GCO00632

Mercury Narration

CO00651

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
All MSD recoveries were within 75 - 125 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 06/27/23 09:50 Ian Enders, Tina Hall, Chemist 06/27/23

CO00632, CO00634, CO00636, CO00637, CO00644, CO00646, CO00647, CO00651

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/12/23 11:29 Cindy Pearce, Chemist 05/12/23

CO00632, CO00633, CO00634, CO00635, CO00636, CO00637, CO00643, CO00644, CO00645, CO00651

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/16/23 08:16 Tina Hall, Chemist 05/16/23

CO00646, CO00647

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 676879 (CO00518)

CO00632, CO00633, CO00634, CO00635, CO00636, CO00637, CO00643, CO00644, CO00645, CO00646, CO00647, CO00651

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):



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Certification Report

June 28, 2023

SDG I.D.: GCO00632

ICP Metals Narration

Batch 683383 (CO00632)

CO00632, CO00634, CO00636, CO00637, CO00644, CO00646, CO00647, CO00651
All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677759 (Samples: CO00639, CO00649): -----

The LCS/LCSD RPD exceeds the method criteria for one surrogate. No significant variability is suspected. (% TCMX (Surrogate Rec))

Instrument:

AU-ECD48 05/17/23-1 Saadia Chudary, Chemist 05/17/23

CO00639 (10X), CO00649 (10X)

The initial calibration (PC0327AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0327BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples:

Preceding CC 517B024 - None.

Succeeding CC - None.

AU-ECD48 05/18/23-1 Saadia Chudary, Chemist 05/18/23

CO00651 (10X)

The initial calibration (PC0327AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0327BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO00651

Preceding CC 518B035 - PCB 1260 19%H (%)

Succeeding CC 518B048 - PCB 1260 17%H (%)

AU-ECD5 05/22/23-1 Saadia Chudary, Chemist 05/22/23

CO00638 (10X)

The initial calibration (PC0428AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0428BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 677759 (CO05834)

CO00639, CO00649

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: % TCMX (Surrogate Rec)(31.1%)



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO00632

PCB Narration

Batch 677995 (CO05882)

CO00651

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 678761 (CO04826)

CO00638

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677578 (Samples: CO00635, CO00636, CO00642): -----

The LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (d-BHC)

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s). No significant variability is suspected. (d-BHC)

Instrument:

AU-ECD33 05/15/23-1

Adam Werner, Chemist 05/15/23

CO00635 (2X), CO00642 (2X)

The initial calibration (PS0420AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0420BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO00635, CO00642

Preceding CC 515B033 - Methoxychlor -26%L (20%)

Succeeding CC 515B047 - Methoxychlor -22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD35 05/15/23-1

Adam Werner, Chemist 05/15/23

CO00636 (2X)

The initial calibration (PS0407AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0407BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO00636

Preceding CC 515B038 - % DCBP -21%L (20%), d-BHC -26%L (20%)

Succeeding CC 515B047 - % DCBP -21%L (20%), d-BHC -27%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO00632

PEST Narration

criteria. All reported samples were ND for the affected compounds.

AU-ECD35 05/19/23-1 Adam Werner, Chemist 05/19/23

CO00634 (2X), CO00637 (2X)

The initial calibration (PS0407AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0407BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO00634, CO00637

Preceding CC 519B004 - d-BHC -23%L (20%)

Succeeding CC 519B017 - d-BHC -24%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 05/11/23-1 Adam Werner, Chemist 05/11/23

CO00632 (2X)

The initial calibration (PS0328AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0328BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD4 05/12/23-1 Adam Werner, Chemist 05/12/23

CO00633 (2X)

The initial calibration (PS0328AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0328BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD4 05/18/23-1 Adam Werner, Chemist 05/18/23

CO00651 (2X)

The initial calibration (AC0515AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (AC0515BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO00651

Preceding CC 518B004 - Endosulfan sulfate 21%H (20%), Endrin Ketone 27%H (20%)

Succeeding CC 518B016 - None.

QC (Batch Specific):

Batch 677578 (CO01173)

CO00635, CO00636, CO00642

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: d-BHC(30%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: d-BHC(63.6%)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 28, 2023

SDG I.D.: GCO00632

PEST Narration

Batch 677999 (CO05882)

CO00651

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 678220 (CO04889)

CO00634, CO00637

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

QC (Site Specific):

Batch 677131 (CO00632)

CO00632, CO00633

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 150 with the following exceptions: None.
All MSD recoveries were within 30 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM19 05/12/23-1

Matt Richard, Chemist 05/12/23

CO00650 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0419):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0512_07-19_BN_0419):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM19 05/15/23-1

Adam Werner, Chemist 05/15/23



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 28, 2023

SDG I.D.: GCO00632

SVOA Narration

CO00647 (5X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_SPLIT_0419):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0515_03-19_SPLIT_0419):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

97% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM22 05/12/23-1

Matt Richard, Chemist 05/12/23

CO00632 (1X), CO00633 (1X), CO00634 (1X), CO00635 (1X), CO00636 (1X), CO00643 (1X), CO00644 (1X), CO00645 (1X), CO00646 (1X), CO00647 (1X), CO00648 (1X)

Initial Calibration Evaluation (CHEM22/22_BN_0503):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM22/0512_03-22_BN_0503):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 677399 (CO00317)

CO00632, CO00633, CO00634, CO00635, CO00636, CO00643, CO00644, CO00645, CO00646, CO00647, CO00648

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 677497 (CO01040)

CO00650

All LCS recoveries were within 40 - 140 with the following exceptions: None.



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO00632

SVOA Narration

All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677699 (Samples: CO00652): -----

The LCS recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (trans-1,4-dichloro-2-butene)

QC Batch 677699H: -----

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Bromomethane, Chloroethane, Trichlorofluoromethane)

QC Batch 677721 (Samples: CO00632, CO00633, CO00634, CO00635, CO00636, CO00637, CO00648, CO00650): -----

The LCS/LCSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (trans-1,4-dichloro-2-butene)

Instrument:

CHEM14 05/12/23-2

Jane Li, Chemist 05/12/23

CO00652 (1X), CO00653 (50X)

Initial Calibration Evaluation (CHEM14/VT051123):

94% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 24% (20%), Chloroethane 26% (20%), Styrene 32% (20%), trans-1,3-Dichloropropene 25% (20%), trans-1,4-dichloro-2-butene 39% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0512_36-VT051123):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/12/23-1

Jane Li, Chemist 05/12/23

CO00632 (1X, 50X), CO00633 (1X), CO00634 (1X), CO00635 (1X), CO00636 (1X), CO00637 (1X), CO00648 (1X), CO00650 (1X)

Initial Calibration Evaluation (CHEM31/VT-L051023):

95% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 22% (20%), Naphthalene 23% (20%), trans-1,3-Dichloropropene 25% (20%), trans-1,4-dichloro-2-butene 37% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.094 (0.1), Bromoform 0.098 (0.1), Tetrachloroethene 0.144 (0.2), Trichloroethene 0.188 (0.2)



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 28, 2023

SDG I.D.: GCO00632

VOA Narration

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0512_02-VT-L051023):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 677699 (CO04404) CHEM14 5/12/2023-2

CO00652(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(131%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677699H (CO04404) CHEM14 5/12/2023-2

CO00653(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(50%), Chloroethane(16%), Trichlorofluoromethane(15%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(54%), Chloroethane(16%), Trichlorofluoromethane(15%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677721 (CO00632) CHEM31 5/12/2023-1

CO00632(1X), CO00633(1X), CO00634(1X), CO00635(1X), CO00636(1X), CO00637(1X), CO00648(1X), CO00650(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(132%)

All LCSD recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(134%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.5C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Coolant: IPK ICE No No
 Temp 16.5 °C Pg 1 of 2

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/8/23
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT ETPH (DPH METHOD)	VOCs (EPA 8260/9305) 1,4 Dioxane	SVOCs (EPA 8270) PAHs (EPA 8270)	Total RCRA 8 Metals	Total RSP 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) methanol (2) H2O	GL Soil container (8) oz	40 ml VOA Vial (8) oz	GL Amber Vial (1) As is (1) HCl	PL As is (1) 250ml (1) As is (1) 250ml	PL HNO3 250ml (1) 500ml (1) 1000ml	PL NaOH 250ml	Bacteria Bottle within	Bacteria Bottle as is	Hold	
00632	HA-1(0-0.5)	S	5/8/23	1140	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00633	HA-2(0-0.5)	S	5/8/23	1155	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00634	HA-5(0-0.5)	S	5/8/23	1335	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00635	HA-7(0-0.5)	S	5/8/23	1310	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00636	HA-9(0-0.5)	S	5/8/23	1250	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00637	HA-10(0-0.5)	*S	5/8/23	1305	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00638	HA-15(0-0.5)	S	5/8/23	1055	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00638	HA-14(0-0.5)	S	5/8/23																					
00639	HA-17(0-0.5)	S	5/8/23	1100	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00640	HA-18(0-0.5)	S	5/8/23	1105	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00641	HA-19(0-0.5)	S	5/8/23	1115	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
00642	HA-41(0-0.5)	S	5/8/23	1120	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: [Signature] Accepted by: Tighe & Bond Fridge Date: 5/8/23 Time: 1610
[Signature] Kelly Craft 5/9/23 1043
[Signature] [Signature] 5/9/23 10:44

Comments, Special Requirements or Regulations:
[Signature]

Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

RI
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

State where samples were collected: CT

* SURCHARGE APPLIES

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Coolant: Yes No
 IPK ICE
 Temp 15 °C Pg 2 of 2

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 5/8/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT ETPH (DPH METHOD)	VOCs (EPA 8260/5305)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total RCRA 8 Metals	Total RSR 8 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) Methanol (2) H2O	GL Soil container (8) oz	GL Soil container (8) oz	40 ml VOA Vial (1) As is (1) HCl	PL As is (1) 250ml (1) 500ml (1) 1000ml	PL H2SO4 (1) 250ml (1) 500ml (1) 1000ml	PL NaOH 250ml	Bacteria Bottle within	Bacteria Bottle as is	Hold	
00643	HA-43(0-0.5)	S	5/8/23	1210				X		X						1										
00644	HA-44(0-0.5)	S	5/8/23	1211				X		X						1										
00645	HA-45(0-0.5)	S	5/8/23	1212				X		X						1										
00646	HA-46(0-0.5)	S	5/8/23	1213				X		X						1										
00647	HA-47(0-0.5)	S	5/8/23	1214				X		X						1										
00648	B-134(0-2)	S	5/8/23	0945	X	X		X								3	1									
00649	HA-14(0-0.5)	S	5/8/23	0945	X								X			1										
00650	HA-21(0-0.5)	S	5/8/23	1000	X	X		X								3	1									
00651	HA-39(0-0.5)	S	5/8/23	0950						X			X	X		1										
00652	TB050823L					X										2										
00653	TB050823H					X										1										

Relinquished by: [Signature] Accepted by: Tighe & Bond Field Date: 5/8/23 Time: 10:10
Tighe & Bond Field Kelly Gratt Date: 5/8/23 Time: 10:43
Kelly Gratt [Signature] Date: 5/9/23 Time: 10:46

Comments, Special Requirements or Regulations:
[Signature]

Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.
 *SURCHARGE APPLIES

RI
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

State where samples were collected: CT

Data Format
 Excel
 PDF
 GIS/Key
 EQuIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

*SURCHARGE APPLIES

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Wednesday, May 10, 2023 10:27 AM
To: Sarah Bell
Cc: Jill L. Libby; Julia Jackson; Casey Watts
Subject: FW: Phoenix Labs - GCO00632, BRAINARD AIRPORT - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Hi Sarah,
Can you add herbicide analysis to the following samples:

CO00632	HA-1 (0-0.5)
CO00633	HA-2 (0-0.5)
CO00635	HA-7 (0-0.5)
CO00636	HA-9 (0-0.5)
CO00637	HA-10 (0-0.5)

Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



o. 203.712.1106 | m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com



From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Tuesday, May 9, 2023 8:38 PM
To: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: Phoenix Labs - GCO00632, BRAINARD AIRPORT - COC Acknowledgement

[Caution - External Sender]

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 12-5182-001

Samples Will Be Disposed After: 30 Days

GCO00632 Criteria:
SOIL(22): CT GBM (GB Mobility), CT I/C (I/C Dec), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed.

Delivery group GCO00632 (BRAINARD AIRPORT) has been logged in for the following samples:

Phoenix Id	Client Id
CO00632	HA-1 (0-0.5)
CO00633	HA-2 (0-0.5)
CO00634	HA-5 (0-0.5)
CO00635	HA-7 (0-0.5)
CO00636	HA-9 (0-0.5)
CO00637	HA-10 (0-0.5)
CO00638	HA-15 (0-0.5)

CO00639	HA-17 (0-0.5)
CO00640	HA-18 (0-0.5)
CO00641	HA-19 (0-0.5)
CO00642	HA-41 (0-0.5)
CO00643	HA-43 (0-0.5)
CO00644	HA-44 (0-0.5)
CO00645	HA-45 (0-0.5)
CO00646	HA-46 (0-0.5)
CO00647	HA-47 (0-0.5)
CO00648	B-134 (0-2)
CO00649	HA-14 (0-0.5)
CO00650	HA-21 (0-0.5)
CO00651	HA-39 (0-0.5)
CO00652	TB050823L
CO00653	TB050823H

This SDG has been logged in for Standard 7 business day turn-around time.

The samples were received at 1.5C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.

cc'JTolsen@tigebond.com; jllibby@tigebond.com; cwatts@tigebond.com; MPaulsson@TigheBond.com; jjackson@tigebond.com

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:39 AM
To: Shannon Wilhelm; Sarah Bell; Jill L. Libby
Subject: RE: SPLP Analysis

Yes, that is fine. Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com



From: Shannon Wilhelm <shannon@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:37 AM
To: Mark Paulsson <MPaulsson@TigheBond.com>; Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

Also, I just realized the SPLP HG would be past holding time too. Okay to proceed?

Shannon Wilhelm
Client Services Representative
Phoenix Environmental Laboratories
587 East Middle Turnpike

Manchester CT 06040
860-645-1102

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:28 AM
To: Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Cc: Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

Yes, please do. Thanks!

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:26 AM
To: Jill L. Libby <JLLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>; Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

SPLP Pesticides are past holding time do you still want to run?

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
Website: www.phoenixlabs.com

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Tuesday, June 20, 2023 9:52 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

Thanks Sarah,
Could I please get the following SPLP analysis added with 5-day TAT?

Jill

SPLP Chromium (Total)	B-43	CN94966
SPLP Lead	B-43	CN94966
SPLP Mercury	B-43	CN94966
SPLP Lead	HA-1	CO00632
SPLP Lead	HA-5	CO00634
SPLP Lead	HA-9	CO00636
SPLP Lead	HA-10	CO00637
SPLP Lead	HA-44	CO00644
SPLP Lead	HA-46	CO00646
SPLP Lead	HA-47	CO00647
SPLP Vanadium	HA-39	CO00651
SPLP Copper	HA-24	CO01220
SPLP Lead	HA-24	CO01220
SPLP Zinc	HA-24	CO01220

SPLP Zinc	HA-25	CO01221
SPLP Lead	HA-26	CO01222
SPLP Pesticides	HA-26	CO01222
SPLP Lead	HA-28	CO01224
SPLP Lead	HA-29	CO01225
SPLP Lead	HA-30	CO01226
SPLP Lead	HA-31	CO01227
SPLP Lead	HA-32	CO01228
SPLP Pesticides	HA-32	CO01228
SPLP Barium	<u>B-88</u>	CO08010
SPLP Beryllium	<u>B-88</u>	CO08010
SPLP Nickel	<u>B-88</u>	CO08010
SPLP Vanadium	<u>B-88</u>	CO08010
SPLP Barium	DUP-8	CO08011
SPLP Beryllium	DUP-8	CO08011
SPLP Nickel	DUP-8	CO08011
SPLP Vanadium	DUP-8	CO08011
SPLP Barium	B-90	CO08015
SPLP Barium	B-92	CO08016
SPLP Beryllium	B-92	CO08016
SPLP Chromium (Total)	B-92	CO08016
SPLP Nickel	B-92	CO08016
SPLP Vanadium	B-92	CO08016
SPLP Copper	B-108	CO09181
SPLP Vanadium	B-108	CO09181
SPLP Barium	B-122	CO10278
SPLP Chromium (Total)	B-122	CO10278
SPLP Barium	B-123	CO10279
SPLP Mercury	B-123	CO10279
SPLP Chromium (Total)	B-127	CO10282
SPLP Copper	B-127	CO10282
SPLP Nickel	B-127	CO10282
SPLP Chromium (Total)	B-135	CO11308

SPLP Lead	B-135	CO11308
SPLP Mercury	B-135	CO11308
SPLP Copper	B-145	CO11311
SPLP Zinc	B-145	CO11311
SPLP Pesticides	HA-34	CO11319
SPLP Pesticides	HA-40	CO11322
SPLP Pesticides	DUP-13	CO11323

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby *(she/her/hers)*

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090

w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Friday, June 16, 2023 4:06 PM
To: Jill L. Libby <JLLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

We should have the rest there are only like 3 we won't have I put NO in the box

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
Website: www.phoenixlabs.com

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Friday, June 16, 2023 12:43 PM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: SPLP Analysis

Sarah,
We are thinking of running the following samples for some SPLP metals. Could you please let us know if you have the following samples still? If you, we will let you know which metals/pests to run on which samples.
Thanks,
Jill

ID	lab ID	Still have?
B-108	CO09181	
B-112	CN92792	NO
B-122	CO10278	
B-123	CO10279	
B-127	CO10282	
B-135	CO11308	
B-145	CO11311	
B-3	CN93805	NO
B-43	CN94966	
B-88	CO08010	
B-90	CO08015	
B-92	CO08016	

B-93	CN93820	NO
DUP-13	CO11323	
DUP-8	CO08011	
HA-1	CO00632	
HA-10	CO00637	
HA-24	CO01220	
HA-25	CO01221	
HA-26	CO01222	
HA-26	CO01222	
HA-28	CO01224	
HA-29	CO01225	
HA-30	CO01226	
HA-31	CO01227	
HA-32	CO01228	
HA-32	CO01228	
HA-34	CO11319	
HA-39	CO00651	
HA-40	CO11322	
HA-44	CO00644	
HA-46	CO00646	
HA-47	CO00647	
HA-5	CO00634	
HA-9	CO00636	

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby *(she/her/hers)*

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090

w: tighebond.com | halvorsondesign.com





Tuesday, May 30, 2023

Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO01217
Sample ID#s: CO01217 - CO01230

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

May 30, 2023

SDG I.D.: GCO01217

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
HA-12A(0-0.5)	CO01217	SOIL
HA-12B(0-0.5)	CO01218	SOIL
HA-23(0-0.5)	CO01219	SOIL
HA-24(0-2)	CO01220	SOIL
HA-25(0-2)	CO01221	SOIL
HA-26(0-0.5)	CO01222	SOIL
HA-27(0-0.5)	CO01223	SOIL
HA-28 (0-0.5)	CO01224	SOIL
HA-29(0-0.5)	CO01225	SOIL
HA-30(0-0.5)	CO01226	SOIL
HA-31(0-0.5)	CO01227	SOIL
HA-32(0-0.5)	CO01228	SOIL
TB050923L	CO01229	SOIL
TB050923H	CO01230	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/09/23
 05/09/23

Time

13:48
 15:36

Laboratory Data

SDG ID: GCO01217
 Phoenix ID: CO01217

Project ID: BRAINARD AIRPORT
 Client ID: HA-12A(0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		05/09/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for PCB	Completed				05/16/23	B/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	700	260	mg/Kg	5	05/17/23	JRB	CTETPH
Identification	**		mg/Kg	5	05/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	99		%	5	05/17/23	JRB	50 - 150 %
% Terphenyl (surr)	52		%	5	05/17/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	350	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	05/18/23	SC	SW8082A

QA/QC Surrogates

% DCBP	82		%	10	05/18/23	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	05/18/23	SC	30 - 150 %
% TCMX	66		%	10	05/18/23	SC	30 - 150 %
% TCMX (Confirmation)	70		%	10	05/18/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

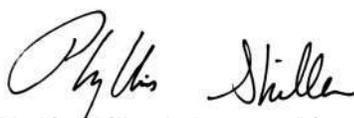
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/09/23
 05/09/23

Time

13:50
 15:36

Laboratory Data

SDG ID: GCO01217
 Phoenix ID: CO01218

Project ID: BRAINARD AIRPORT
 Client ID: HA-12B(0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		05/09/23	CV	SW846-%Solid
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for PCB	Completed				05/16/23	B/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	1200	300	mg/Kg	5	05/18/23	JRB	CTETPH
Identification	**		mg/Kg	5	05/18/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	121		%	5	05/18/23	JRB	50 - 150 %
% Terphenyl (surr)	77		%	5	05/18/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	410	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1221	ND	410	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1232	ND	410	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1242	ND	410	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1248	ND	410	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1254	ND	410	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1260	ND	410	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1262	ND	410	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1268	ND	410	ug/Kg	10	05/18/23	SC	SW8082A

QA/QC Surrogates

% DCBP	70		%	10	05/18/23	SC	30 - 150 %
% DCBP (Confirmation)	64		%	10	05/18/23	SC	30 - 150 %
% TCMX	58		%	10	05/18/23	SC	30 - 150 %
% TCMX (Confirmation)	63		%	10	05/18/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

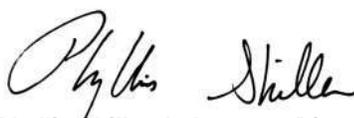
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/09/23
 05/09/23

Time

13:55
 15:36

Laboratory Data

SDG ID: GCO01217
 Phoenix ID: CO01219

Project ID: BRAINARD AIRPORT
 Client ID: HA-23(0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/09/23		SW5035A
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for SVOA PAH	Completed				05/15/23	B/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	410	270	mg/Kg	5	05/17/23	JRB	CTETPH
Identification	**		mg/Kg	5	05/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	129		%	5	05/17/23	JRB	50 - 150 %
% Terphenyl (surr)	99		%	5	05/17/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/15/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.51	ug/Kg	1	05/15/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
2-Chlorotoluene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/15/23	JLI	SW8260C
2-Isopropyltoluene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
4-Chlorotoluene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/15/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/15/23	JLI	SW8260C
Acrylonitrile	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Benzene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Bromobenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
Bromochloromethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Bromodichloromethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Bromoform	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Bromomethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Carbon Disulfide	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Carbon tetrachloride	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Chlorobenzene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Chloroethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Chloroform	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Chloromethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/15/23	JLI	SW8260C
Dibromomethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Ethylbenzene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Hexachlorobutadiene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
Isopropylbenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
m&p-Xylene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/15/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/15/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/15/23	JLI	SW8260C
Naphthalene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
n-Butylbenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
n-Propylbenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
o-Xylene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
p-Isopropyltoluene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
sec-Butylbenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
Styrene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
tert-Butylbenzene	ND	340	ug/Kg	50	05/15/23	JLI	SW8260C
Tetrachloroethene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/15/23	JLI	SW8260C
Toluene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	690	ug/Kg	50	05/15/23	JLI	SW8260C
Trichloroethene	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/15/23	JLI	SW8260C
Vinyl chloride	ND	5.1	ug/Kg	1	05/15/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	88		%	1	05/15/23	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	05/15/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/15/23	JLI	70 - 130 %
% Toluene-d8	90		%	1	05/15/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	05/15/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	103		%	50	05/15/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	97		%	50	05/15/23	JLI	70 - 130 %
% Toluene-d8 (50x)	94		%	50	05/15/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	05/16/23	HM	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/16/23	HM	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	05/16/23	HM	SW8270D
Anthracene	ND	250	ug/Kg	1	05/16/23	HM	SW8270D
Benz(a)anthracene	450	250	ug/Kg	1	05/16/23	HM	SW8270D
Benzo(a)pyrene	610	250	ug/Kg	1	05/16/23	HM	SW8270D
Benzo(b)fluoranthene	920	250	ug/Kg	1	05/16/23	HM	SW8270D
Benzo(ghi)perylene	630	250	ug/Kg	1	05/16/23	HM	SW8270D
Benzo(k)fluoranthene	290	250	ug/Kg	1	05/16/23	HM	SW8270D
Chrysene	560	250	ug/Kg	1	05/16/23	HM	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/16/23	HM	SW8270D
Fluoranthene	1200	250	ug/Kg	1	05/16/23	HM	SW8270D
Fluorene	ND	250	ug/Kg	1	05/16/23	HM	SW8270D
Indeno(1,2,3-cd)pyrene	640	250	ug/Kg	1	05/16/23	HM	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/16/23	HM	SW8270D
Phenanthrene	650	250	ug/Kg	1	05/16/23	HM	SW8270D
Pyrene	1000	250	ug/Kg	1	05/16/23	HM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	57		%	1	05/16/23	HM	30 - 130 %
% Nitrobenzene-d5	64		%	1	05/16/23	HM	30 - 130 %
% Terphenyl-d14	64		%	1	05/16/23	HM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

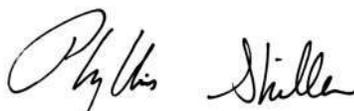
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/09/23
 05/09/23

Time

14:20
 15:36

Laboratory Data

SDG ID: GCO01217
 Phoenix ID: CO01220

Project ID: BRAINARD AIRPORT
 Client ID: HA-24(0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	05/11/23	TH	SW6010D
Arsenic	3.76	0.78	mg/Kg	1	05/11/23	TH	SW6010D
Barium	61.2	0.39	mg/Kg	1	05/11/23	TH	SW6010D
Beryllium	0.41	0.31	mg/Kg	1	05/11/23	TH	SW6010D
Cadmium	1.15	0.39	mg/Kg	1	05/11/23	TH	SW6010D
Chromium	24.0	0.39	mg/Kg	1	05/11/23	TH	SW6010D
Copper	51.4	0.8	mg/kg	1	05/11/23	TH	SW6010D
Mercury	0.38	0.03	mg/Kg	2	05/16/23	IE	SW7471B
Nickel	21.8	0.39	mg/Kg	1	05/11/23	TH	SW6010D
Lead	50.8	0.39	mg/Kg	1	05/11/23	TH	SW6010D
Antimony	< 3.9	3.9	mg/Kg	1	05/11/23	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/11/23	TH	SW6010D
Thallium	< 3.5	3.5	mg/Kg	1	05/11/23	TH	SW6010D
Vanadium	30.2	0.39	mg/Kg	1	05/11/23	TH	SW6010D
Zinc	98.9	0.8	mg/Kg	1	05/11/23	IE	SW6010D
Percent Solid	86		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/09/23		SW5035A
Mercury Digestion	Completed				05/15/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for PCB	Completed				05/22/23	MO/MO	SW3546
Soil Extraction for Pesticide	Completed				05/22/23	MO/MO	SW3546
Soil Extraction for SVOA	Completed				05/15/23	C/F	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	05/17/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/17/23	JRB	CTETPH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% COD (surr)	83		%	1	05/17/23	JRB	50 - 150 %
% Terphenyl (surr)	97		%	1	05/17/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	82		%	10	05/23/23	SC	30 - 150 %
% DCBP (Confirmation)	87		%	10	05/23/23	SC	30 - 150 %
% TCMX	88		%	10	05/23/23	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	05/23/23	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
4,4' -DDE	ND	20	ug/Kg	2	05/24/23	AW	SW8081B
4,4' -DDT	ND	20	ug/Kg	2	05/24/23	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Alachlor	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	05/24/23	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	05/24/23	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	05/24/23	AW	SW8081B
Endosulfan I	ND	20	ug/Kg	2	05/24/23	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/24/23	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	05/24/23	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	05/24/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/24/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	05/24/23	AW	30 - 150 %
% DCBP (Confirmation)	73		%	2	05/24/23	AW	30 - 150 %
% TCMX	78		%	2	05/24/23	AW	30 - 150 %
% TCMX (Confirmation)	70		%	2	05/24/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,1-Trichloroethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	05/13/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.64	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
2-Chlorotoluene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	05/13/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
4-Chlorotoluene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	05/13/23	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	05/13/23	JLI	SW8260C
Acrylonitrile	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Benzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Bromobenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Bromochloromethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Bromodichloromethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Bromoform	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Bromomethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Carbon Disulfide	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Carbon tetrachloride	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Chlorobenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Chloroethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Chloroform	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Chloromethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/13/23	JLI	SW8260C
Dibromomethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Ethylbenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Isopropylbenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
m&p-Xylene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/13/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/13/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/13/23	JLI	SW8260C
Naphthalene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
n-Butylbenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
n-Propylbenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
o-Xylene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
sec-Butylbenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Styrene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
tert-Butylbenzene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Tetrachloroethene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/13/23	JLI	SW8260C
Toluene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Total Xylenes	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/13/23	JLI	SW8260C
Trichloroethene	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/13/23	JLI	SW8260C
Vinyl chloride	ND	6.4	ug/Kg	1	05/13/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	05/13/23	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	05/13/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/13/23	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/13/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2,4-Dinitrophenol	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
2-Nitroaniline	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
3-Nitroaniline	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	05/16/23	KCA	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Acenaphthylene	350	270	ug/Kg	1	05/16/23	KCA	SW8270D
Acetophenone	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Aniline	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Benz(a)anthracene	1100	270	ug/Kg	1	05/16/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/16/23	KCA	SW8270D
Benzo(a)pyrene	1200	270	ug/Kg	1	05/16/23	KCA	SW8270D
Benzo(b)fluoranthene	1300	270	ug/Kg	1	05/16/23	KCA	SW8270D
Benzo(ghi)perylene	610	270	ug/Kg	1	05/16/23	KCA	SW8270D
Benzo(k)fluoranthene	460	270	ug/Kg	1	05/16/23	KCA	SW8270D
Benzoic acid	ND	760	ug/Kg	1	05/16/23	KCA	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Carbazole	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Chrysene	1100	270	ug/Kg	1	05/16/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Di-n-butylphthalate	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Fluoranthene	1500	270	ug/Kg	1	05/16/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	640	270	ug/Kg	1	05/16/23	KCA	SW8270D
Isophorone	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/16/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/16/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Pentachloronitrobenzene	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Phenanthrene	640	270	ug/Kg	1	05/16/23	KCA	SW8270D
Phenol	ND	270	ug/Kg	1	05/16/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pyrene	1500	270	ug/Kg	1	05/16/23	KCA	SW8270D
Pyridine	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	75		%	1	05/16/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	05/16/23	KCA	30 - 130 %
% 2-Fluorophenol	59		%	1	05/16/23	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/16/23	KCA	30 - 130 %
% Phenol-d5	67		%	1	05/16/23	KCA	30 - 130 %
% Terphenyl-d14	61		%	1	05/16/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/09/23
 05/09/23

Time

14:25
 15:36

Laboratory Data

SDG ID: GCO01217
 Phoenix ID: CO01221

Project ID: BRAINARD AIRPORT
 Client ID: HA-25(0-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/12/23	TH	SW6010D
Arsenic	2.95	0.74	mg/Kg	1	05/12/23	TH	SW6010D
Barium	52.3	0.37	mg/Kg	1	05/12/23	TH	SW6010D
Beryllium	0.36	0.29	mg/Kg	1	05/12/23	TH	SW6010D
Cadmium	1.16	0.37	mg/Kg	1	05/12/23	TH	SW6010D
Chromium	20.9	0.37	mg/Kg	1	05/12/23	TH	SW6010D
Copper	30.7	0.7	mg/kg	1	05/12/23	TH	SW6010D
Mercury	0.08	0.03	mg/Kg	2	05/16/23	IE	SW7471B
Nickel	22.0	0.37	mg/Kg	1	05/12/23	TH	SW6010D
Lead	28.4	0.37	mg/Kg	1	05/12/23	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/12/23	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/12/23	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/12/23	TH	SW6010D
Vanadium	34.6	0.37	mg/Kg	1	05/12/23	TH	SW6010D
Zinc	99.3	0.7	mg/Kg	1	05/12/23	IE	SW6010D
Percent Solid	87		%		05/09/23	CV	SW846-%Solid
Field Extraction	Completed				05/09/23		SW5035A
Mercury Digestion	Completed				05/15/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/15/23	L/B/MO	SW3546
Soil Extraction for SVOA	Completed				05/15/23	C/F	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	05/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	100		%	1	05/16/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	110		%	1	05/16/23	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.1	ug/Kg	1	05/13/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloroethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloroethene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,1-Dichloropropene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.86	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichloroethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,2-Dichloropropane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,3-Dichloropropane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
2,2-Dichloropropane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
2-Chlorotoluene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
2-Hexanone	ND	43	ug/Kg	1	05/13/23	JLI	SW8260C
2-Isopropyltoluene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
4-Chlorotoluene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	43	ug/Kg	1	05/13/23	JLI	SW8260C
Acetone	ND	430	ug/Kg	1	05/13/23	JLI	SW8260C
Acrylonitrile	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Benzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Bromobenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Bromochloromethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Bromodichloromethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Bromoform	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Bromomethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Carbon Disulfide	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Carbon tetrachloride	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Chlorobenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Chloroethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Chloroform	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Chloromethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Dibromochloromethane	ND	5.1	ug/Kg	1	05/13/23	JLI	SW8260C
Dibromomethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Dichlorodifluoromethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Ethylbenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Hexachlorobutadiene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
m&p-Xylene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	51	ug/Kg	1	05/13/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	17	ug/Kg	1	05/13/23	JLI	SW8260C
Methylene chloride	ND	17	ug/Kg	1	05/13/23	JLI	SW8260C
Naphthalene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
n-Butylbenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
n-Propylbenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
o-Xylene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
p-Isopropyltoluene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
sec-Butylbenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Styrene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
tert-Butylbenzene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Tetrachloroethene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	17	ug/Kg	1	05/13/23	JLI	SW8260C
Toluene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Total Xylenes	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	17	ug/Kg	1	05/13/23	JLI	SW8260C
Trichloroethene	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Trichlorofluoromethane	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	17	ug/Kg	1	05/13/23	JLI	SW8260C
Vinyl chloride	ND	8.6	ug/Kg	1	05/13/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	05/13/23	JLI	70 - 130 %
% Bromofluorobenzene	84		%	1	05/13/23	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/13/23	JLI	70 - 130 %
% Toluene-d8	93		%	1	05/13/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2,4-Dinitrophenol	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
2-Nitroaniline	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Nitrophenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
3-Nitroaniline	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	05/16/23	KCA	SW8270D
4-Nitrophenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Acetophenone	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Aniline	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Anthracene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/16/23	KCA	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Benzoic acid	ND	750	ug/Kg	1	05/16/23	KCA	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Carbazole	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Chrysene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Di-n-butylphthalate	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Fluoranthene	290	260	ug/Kg	1	05/16/23	KCA	SW8270D
Fluorene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Isophorone	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/16/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/16/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Pentachloronitrobenzene	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachlorophenol	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Phenol	ND	260	ug/Kg	1	05/16/23	KCA	SW8270D
Pyrene	270	260	ug/Kg	1	05/16/23	KCA	SW8270D
Pyridine	ND	380	ug/Kg	1	05/16/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	63		%	1	05/16/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	53		%	1	05/16/23	KCA	30 - 130 %
% 2-Fluorophenol	49		%	1	05/16/23	KCA	30 - 130 %
% Nitrobenzene-d5	53		%	1	05/16/23	KCA	30 - 130 %
% Phenol-d5	56		%	1	05/16/23	KCA	30 - 130 %
% Terphenyl-d14	52		%	1	05/16/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/23
05/09/23

Time

14:30
15:36

Laboratory Data

SDG ID: GCO01217
Phoenix ID: CO01222

Project ID: BRAINARD AIRPORT
Client ID: HA-26(0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	231	3.5	mg/Kg	10	05/12/23	IE	SW6010D
Percent Solid	89		%		05/09/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/22/23	MO/MO	SW3546
Soil Extraction for Pesticide	Completed				05/22/23	MO/MO	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	360	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	05/24/23	SC	SW8082A

QA/QC Surrogates

% DCBP	136		%	10	05/24/23	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	05/24/23	SC	30 - 150 %
% TCMX	96		%	10	05/24/23	SC	30 - 150 %
% TCMX (Confirmation)	76		%	10	05/24/23	SC	30 - 150 %

Pesticides

4,4' -DDD	490	150	ug/Kg	200	05/24/23	PS	SW8081B
4,4' -DDE	420	150	ug/Kg	200	05/24/23	PS	SW8081B
4,4' -DDT	390	150	ug/Kg	200	05/24/23	PS	SW8081B
a-BHC	ND	29	ug/Kg	200	05/24/23	PS	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	360	ug/Kg	200	05/24/23	PS	SW8081B
Aldrin	ND	29	ug/Kg	200	05/24/23	PS	SW8081B
b-BHC	ND	29	ug/Kg	200	05/24/23	PS	SW8081B
Chlordane	ND	66	ug/Kg	200	05/24/23	PS	SW8081B
d-BHC	ND	29	ug/Kg	200	05/24/23	PS	SW8081B
Dieldrin	ND	29	ug/Kg	200	05/24/23	PS	SW8081B
Endosulfan I	ND	730	ug/Kg	200	05/24/23	PS	SW8081B
Endosulfan II	ND	730	ug/Kg	200	05/24/23	PS	SW8081B
Endosulfan sulfate	ND	730	ug/Kg	200	05/24/23	PS	SW8081B
Endrin	ND	360	ug/Kg	200	05/24/23	PS	SW8081B
Endrin aldehyde	ND	360	ug/Kg	200	05/24/23	PS	SW8081B
Endrin ketone	ND	360	ug/Kg	200	05/24/23	PS	SW8081B
g-BHC	ND	29	ug/Kg	200	05/24/23	PS	SW8081B
Heptachlor	ND	29	ug/Kg	200	05/24/23	PS	SW8081B
Heptachlor epoxide	ND	29	ug/Kg	200	05/24/23	PS	SW8081B
Methoxychlor	ND	3600	ug/Kg	200	05/24/23	PS	SW8081B
Toxaphene	ND	560	ug/Kg	200	05/24/23	PS	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	Diluted Out		%	200	05/24/23	PS	30 - 150 %
% DCBP (Confirmation)	Diluted Out		%	200	05/24/23	PS	30 - 150 %
% TCMX	70		%	200	05/24/23	PS	30 - 150 %
% TCMX (Confirmation)	96		%	200	05/24/23	PS	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Pesticide Comment:

Due to the presence of large quantities of target pesticides in the sample, a dilution was required that caused an elevated RL. Not all requested criteria was achieved.

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/23
05/09/23

Time

12:40
15:36

Laboratory Data

SDG ID: GCO01217
Phoenix ID: CO01223

Project ID: BRAINARD AIRPORT
Client ID: HA-27(0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		05/09/23	CV	SW846-%Solid
Soil Extraction for Pesticide	Completed				05/17/23	MO/F	SW3546

Pesticides

4,4' -DDD	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
4,4' -DDE	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
4,4' -DDT	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
a-BHC	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Alachlor	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Aldrin	ND	3.4	ug/Kg	2	05/19/23	AW	SW8081B
b-BHC	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Chlordane	ND	34	ug/Kg	2	05/19/23	AW	SW8081B
d-BHC	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan I	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan II	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan sulfate	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Endrin	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Endrin aldehyde	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Endrin ketone	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	05/19/23	AW	SW8081B
Heptachlor	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Heptachlor epoxide	ND	6.8	ug/Kg	2	05/19/23	AW	SW8081B
Methoxychlor	ND	34	ug/Kg	2	05/19/23	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	05/19/23	AW	SW8081B

QA/QC Surrogates

% DCBP	81		%	2	05/19/23	AW	30 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	142		%	2	05/19/23	AW	30 - 150 %
% TCMX	81		%	2	05/19/23	AW	30 - 150 %
% TCMX (Confirmation)	87		%	2	05/19/23	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 05/09/23 14:40
 05/09/23 15:36

Laboratory Data

SDG ID: GCO01217
 Phoenix ID: CO01224

Project ID: BRAINARD AIRPORT
 Client ID: HA-28 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	123	0.42	mg/Kg	1	05/12/23	TH	SW6010D
Percent Solid	84		%		05/09/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/22/23	MO/MO	SW3546
Soil Extraction for Pesticide	Completed				05/22/23	MO/MO	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	390	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	05/24/23	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	05/24/23	SC	SW8082A

QA/QC Surrogates

% DCBP	95		%	10	05/24/23	SC	30 - 150 %
% DCBP (Confirmation)	109		%	10	05/24/23	SC	30 - 150 %
% TCMX	102		%	10	05/24/23	SC	30 - 150 %
% TCMX (Confirmation)	93		%	10	05/24/23	SC	30 - 150 %

Pesticides

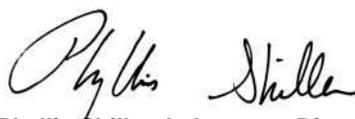
4,4' -DDD	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
4,4' -DDE	38	7.7	ug/Kg	2	05/23/23	AW	SW8081B
4,4' -DDT	66	7.7	ug/Kg	2	05/23/23	AW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	05/23/23	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	05/23/23	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/23/23	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/23/23	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	05/23/23	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/23/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/23/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	78		%	2	05/23/23	AW	30 - 150 %
% DCBP (Confirmation)	83		%	2	05/23/23	AW	30 - 150 %
% TCMX	72		%	2	05/23/23	AW	30 - 150 %
% TCMX (Confirmation)	79		%	2	05/23/23	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/23
05/09/23

Time

10:05
15:36

Laboratory Data

SDG ID: GCO01217
Phoenix ID: CO01225

Project ID: BRAINARD AIRPORT
Client ID: HA-29(0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	108	0.39	mg/Kg	1	05/12/23	TH	SW6010D
Percent Solid	85		%		05/09/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/16/23	B/M	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	380	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/18/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/18/23	SC	SW8082A

QA/QC Surrogates

% DCBP	70		%	10	05/18/23	SC	30 - 150 %
% DCBP (Confirmation)	66		%	10	05/18/23	SC	30 - 150 %
% TCMX	57		%	10	05/18/23	SC	30 - 150 %
% TCMX (Confirmation)	61		%	10	05/18/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 05/09/23 10:03
 05/09/23 15:36

Laboratory Data

SDG ID: GCO01217
 Phoenix ID: CO01226

Project ID: BRAINARD AIRPORT
 Client ID: HA-30(0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	521	3.6	mg/Kg	10	05/17/23	TH	SW6010D
Percent Solid	82		%		05/09/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/22/23	MO/MO	SW3546
Soil Extraction for Pesticide	Completed				05/22/23	MO/MO	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	400	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	05/23/23	SC	SW8082A

QA/QC Surrogates

% DCBP	95		%	10	05/23/23	SC	30 - 150 %
% DCBP (Confirmation)	110		%	10	05/23/23	SC	30 - 150 %
% TCMX	99		%	10	05/23/23	SC	30 - 150 %
% TCMX (Confirmation)	92		%	10	05/23/23	SC	30 - 150 %

Pesticides

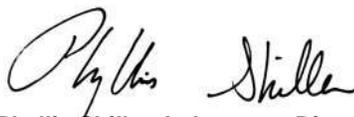
4,4' -DDD	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
4,4' -DDE	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
4,4' -DDT	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	05/23/23	AW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	05/23/23	AW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	05/23/23	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/23/23	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	05/23/23	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	05/23/23	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/23/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	73		%	2	05/23/23	AW	30 - 150 %
% DCBP (Confirmation)	84		%	2	05/23/23	AW	30 - 150 %
% TCMX	65		%	2	05/23/23	AW	30 - 150 %
% TCMX (Confirmation)	78		%	2	05/23/23	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date Time

05/09/23 10:00
05/09/23 15:36

Laboratory Data

SDG ID: GCO01217
Phoenix ID: CO01227

Project ID: BRAINARD AIRPORT
Client ID: HA-31(0-0.5)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Lead, Percent Solid, Soil Extraction for PCB, Soil Extraction for Pesticide, Total Metals Digest.

Polychlorinated Biphenyls

Table with 8 columns: PCB ID, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include PCB-1016 through PCB-1268.

QA/QC Surrogates

Table with 8 columns: Surrogate Name, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include % DCBP, % TCMX and their confirmations.

Pesticides

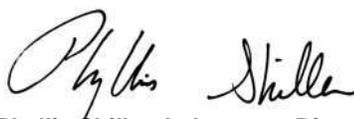
Table with 8 columns: Pesticide Name, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, a-BHC.

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	05/19/23	AW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	05/19/23	AW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/19/23	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	05/19/23	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/19/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/19/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	47		%	2	05/19/23	AW	30 - 150 %
% DCBP (Confirmation)	51		%	2	05/19/23	AW	30 - 150 %
% TCMX	49		%	2	05/19/23	AW	30 - 150 %
% TCMX (Confirmation)	55		%	2	05/19/23	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date Time
05/09/23 14:50
05/09/23 15:36

Laboratory Data

SDG ID: GCO01217
Phoenix ID: CO01228

Project ID: BRAINARD AIRPORT
Client ID: HA-32(0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	123	0.39	mg/Kg	1	05/12/23	CPP	SW6010D
Percent Solid	88		%		05/09/23	CV	SW846-%Solid
Soil Extraction for PCB	Completed				05/22/23	MO/MO	SW3546
Soil Extraction for Pesticide	Completed				05/22/23	MO/MO	SW3546
Total Metals Digest	Completed				05/09/23	J/AG	SW3050B

Polychlorinated Biphenyls

PCB-1016	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	05/23/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	05/23/23	SC	SW8082A

QA/QC Surrogates

% DCBP	78		%	10	05/23/23	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	05/23/23	SC	30 - 150 %
% TCMX	76		%	10	05/23/23	SC	30 - 150 %
% TCMX (Confirmation)	71		%	10	05/23/23	SC	30 - 150 %

Pesticides

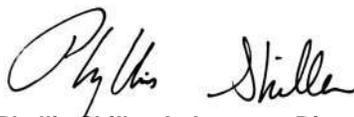
4,4' -DDD	9.5	7.5	ug/Kg	2	05/23/23	PS	SW8081B
4,4' -DDE	130	38	ug/Kg	10	05/24/23	PS	SW8081B
4,4' -DDT	110	38	ug/Kg	10	05/24/23	PS	SW8081B
a-BHC	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Aldrin	ND	3.8	ug/Kg	2	05/23/23	PS	SW8081B
b-BHC	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Chlordane	ND	38	ug/Kg	2	05/23/23	PS	SW8081B
d-BHC	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	05/23/23	PS	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Endrin	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/23/23	PS	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	05/23/23	PS	SW8081B
Methoxychlor	ND	38	ug/Kg	2	05/23/23	PS	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/23/23	PS	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	05/23/23	PS	30 - 150 %
% DCBP (Confirmation)	60		%	2	05/23/23	PS	30 - 150 %
% TCMX	64		%	2	05/23/23	PS	30 - 150 %
% TCMX (Confirmation)	52		%	2	05/23/23	PS	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date: 05/09/23
Time: 15:36

Laboratory Data

SDG ID: GCO01217
Phoenix ID: CO01229

Project ID: BRAINARD AIRPORT
Client ID: TB050923L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/09/23		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/12/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/12/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/12/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/12/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/12/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/12/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/12/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/12/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/12/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/12/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/12/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	94		%	1	05/12/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98		%	1	05/12/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/12/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/12/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 30, 2023

FOR: Attn: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/09/23
05/09/23

Time

15:36

Laboratory Data

SDG ID: GCO01217
Phoenix ID: CO01230

Project ID: BRAINARD AIRPORT
Client ID: TB050923H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction	Completed				05/09/23		SW5035A
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Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/13/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/13/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/13/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/13/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/13/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/13/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/13/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/13/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/13/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/13/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/13/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/13/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/13/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/13/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/13/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	05/13/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	98		%	50	05/13/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99		%	50	05/13/23	JLI	70 - 130 %
% Toluene-d8 (50x)	95		%	50	05/13/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 30, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

May 30, 2023

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 677688 (mg/kg), QC Sample No: CO01220 2X (CO01220, CO01221)

Mercury - Soil	BRL	0.03	0.38	0.34	11.1	106	98.3	7.5	128	95.9	28.7	70 - 130	30	m
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Comment:
 Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 676903 (mg/kg), QC Sample No: CN99505 (CO01220, CO01221, CO01222, CO01224, CO01225)

ICP Metals - Soil

Antimony	BRL	3.3	<4.1	<4.1	NC	106	114	7.3	97.3			75 - 125	35	
Arsenic	BRL	0.67	3.05	3.65	NC	110	113	2.7	99.7			75 - 125	35	
Barium	BRL	0.33	76.4	95.3	22.0	116	125	7.5	119			75 - 125	35	
Beryllium	BRL	0.27	0.40	0.51	NC	106	114	7.3	98.3			75 - 125	35	
Cadmium	BRL	0.33	1.27	1.28	NC	106	115	8.1	97.0			75 - 125	35	
Chromium	BRL	0.33	20.1	23.5	15.6	108	116	7.1	104			75 - 125	35	
Copper	BRL	0.67	40.9	47.3	14.5	112	121	7.7	103			75 - 125	35	
Lead	BRL	0.33	137	202	38.3	105	107	1.9	110			75 - 125	35	r
Nickel	BRL	0.33	27.8	29.8	6.90	108	117	8.0	103			75 - 125	35	
Selenium	BRL	1.3	<1.6	<1.6	NC	117	91.3	24.7	107			75 - 125	35	
Silver	BRL	0.33	<0.41	<0.41	NC	113	118	4.3	107			75 - 125	35	
Thallium	BRL	3.0	<1.6	<3.7	NC	112	114	1.8	99.8			75 - 125	35	
Vanadium	BRL	0.33	30.5	34.8	13.2	111	117	5.3	103			75 - 125	35	
Zinc	BRL	0.67	221	155	35.1	114	124	8.4	89.0			75 - 125	35	

Comment:
 Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 676904 (mg/kg), QC Sample No: CO01285 (CO01226, CO01227, CO01228)

ICP Metals - Soil

Lead	BRL	0.13	2.20	2.32	5.30	97.8	107	9.0	103	101	2.0	75 - 125	35
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Comment:
 Certified CRM ERA D119-540 was used as the LCS/LSCD
 Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

m = This parameter is outside laboratory MS/MSD specified recovery limits.
 r = This parameter is outside laboratory RPD specified recovery limits.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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QA/QC Report

May 30, 2023

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 677757 (mg/Kg), QC Sample No: CO01131 (CO01217, CO01218, CO01219, CO01220, CO01221)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	74	94	23.8	80	97	19.2	60 - 120	30
% COD (surr)	88	%	99	89	10.6	80	76	5.1	50 - 150	30
% Terphenyl (surr)	88	%	73	80	9.2	65	71	8.8	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 678000 (ug/Kg), QC Sample No: CO01773 2X (CO01217, CO01218, CO01225)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	60	69	14.0	69	66	4.4	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	74	80	7.8	77	73	5.3	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	72	%	75	86	13.7	78	76	2.6	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	70	%	74	85	13.8	76	77	1.3	30 - 150	30
% TCMX (Surrogate Rec)	51	%	60	69	14.0	65	63	3.1	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	64	%	71	80	11.9	74	73	1.4	30 - 150	30

QA/QC Batch 678492 (ug/Kg), QC Sample No: CO08482 2X (CO01227)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	99	75	27.6	89	92	3.3	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	98	76	25.3	84	92	9.1	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	87	%	102	77	27.9	84	93	10.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	90	%	108	83	26.2	86	95	9.9	30 - 150	30
% TCMX (Surrogate Rec)	83	%	98	73	29.2	83	94	12.4	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	78	%	93	70	28.2	76	87	13.5	30 - 150	30

QA/QC Batch 678912 (ug/Kg), QC Sample No: CO08490 2X (CO01220, CO01222, CO01224, CO01226, CO01228)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	93	88	5.5	90	88	2.2	40 - 140	30
PCB-1221	ND	33							40 - 140	30

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	87	84	3.5	75	75	0.0	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	86	%	97	95	2.1	87	83	4.7	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	87	%	92	91	1.1	99	94	5.2	30 - 150	30
% TCMX (Surrogate Rec)	71	%	85	79	7.3	73	72	1.4	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	90	%	96	90	6.5	90	91	1.1	30 - 150	30

QA/QC Batch 678220 (ug/Kg), QC Sample No: CO04889 2X (CO01223)

Pesticides - Soil

4,4' -DDD	ND	1.7	71	64	10.4	64	86	29.3	40 - 140	30
4,4' -DDE	ND	1.7	75	66	12.8	68	58	15.9	40 - 140	30
4,4' -DDT	ND	1.7	67	62	7.8	62	59	5.0	40 - 140	30
a-BHC	ND	1.0	73	67	8.6	65	63	3.1	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	80	73	9.2	74	67	9.9	40 - 140	30
b-BHC	ND	1.0	76	69	9.7	67	58	14.4	40 - 140	30
Chlordane	ND	33	78	72	8.0	72	63	13.3	40 - 140	30
d-BHC	ND	3.3	66	67	1.5	56	49	13.3	40 - 140	30
Dieldrin	ND	1.0	81	70	14.6	71	61	15.2	40 - 140	30
Endosulfan I	ND	3.3	82	71	14.4	73	63	14.7	40 - 140	30
Endosulfan II	ND	3.3	90	73	20.9	73	65	11.6	40 - 140	30
Endosulfan sulfate	ND	3.3	87	72	18.9	67	61	9.4	40 - 140	30
Endrin	ND	3.3	73	66	10.1	68	65	4.5	40 - 140	30
Endrin aldehyde	ND	3.3	67	62	7.8	58	57	1.7	40 - 140	30
Endrin ketone	ND	3.3	79	67	16.4	69	62	10.7	40 - 140	30
g-BHC	ND	1.0	73	76	4.0	80	70	13.3	40 - 140	30
Heptachlor	ND	3.3	74	72	2.7	74	66	11.4	40 - 140	30
Heptachlor epoxide	ND	3.3	83	74	11.5	73	65	11.6	40 - 140	30
Methoxychlor	ND	3.3	74	60	20.9	62	57	8.4	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	71	%	76	61	21.9	63	57	10.0	30 - 150	30
% DCBP (Confirmation)	77	%	75	70	6.9	72	63	13.3	30 - 150	30
% TCMX	68	%	73	73	0.0	74	68	8.5	30 - 150	30
% TCMX (Confirmation)	78	%	77	81	5.1	90	83	8.1	30 - 150	30

QA/QC Batch 678493 (ug/Kg), QC Sample No: CO08482 2X (CO01227)

Pesticides - Soil

4,4' -DDD	ND	1.7	89	101	12.6	64	85	28.2	40 - 140	30
4,4' -DDE	ND	1.7	82	98	17.8	65	82	23.1	40 - 140	30
4,4' -DDT	ND	1.7	89	100	11.6	63	82	26.2	40 - 140	30
a-BHC	ND	1.0	88	81	8.3	55	64	15.1	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	87	97	10.9	62	77	21.6	40 - 140	30
b-BHC	ND	1.0	87	85	2.3	59	82	32.6	40 - 140	30
Chlordane	ND	33	85	104	20.1	55	85	42.9	40 - 140	30
d-BHC	ND	3.3	90	76	16.9	48	65	30.1	40 - 140	30
Dieldrin	ND	1.0	87	102	15.9	68	81	17.4	40 - 140	30
Endosulfan I	ND	3.3	94	99	5.2	56	80	35.3	40 - 140	30
Endosulfan II	ND	3.3	86	107	21.8	69	84	19.6	40 - 140	30

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Endosulfan sulfate	ND	3.3	94	100	6.2	61	78	24.5	40 - 140	30
Endrin	ND	3.3	94	100	6.2	65	73	11.6	40 - 140	30
Endrin aldehyde	ND	3.3	88	95	7.7	50	68	30.5	40 - 140	30
Endrin ketone	ND	3.3	89	104	15.5	62	80	25.4	40 - 140	30
g-BHC	ND	1.0	90	88	2.2	79	88	10.8	40 - 140	30
Heptachlor	ND	3.3	88	89	1.1	58	74	24.2	40 - 140	30
Heptachlor epoxide	ND	3.3	89	98	9.6	64	81	23.4	40 - 140	30
Methoxychlor	ND	3.3	90	92	2.2	60	77	24.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	74	%	73	90	20.9	62	76	20.3	30 - 150	30
% DCBP (Confirmation)	66	%	81	83	2.4	61	77	23.2	30 - 150	30
% TCMX	73	%	86	85	1.2	56	64	13.3	30 - 150	30
% TCMX (Confirmation)	81	%	77	95	20.9	64	79	21.0	30 - 150	30

QA/QC Batch 678913 (ug/Kg), QC Sample No: CO08490 2X (CO01220, CO01222, CO01224, CO01226, CO01228)

Pesticides - Soil

4,4' -DDD	ND	1.7	104	93	11.2	71	83	15.6	40 - 140	30
4,4' -DDE	ND	1.7	100	96	4.1	65	71	8.8	40 - 140	30
4,4' -DDT	ND	1.7	98	95	3.1	68	73	7.1	40 - 140	30
a-BHC	ND	1.0	89	84	5.8	68	69	1.5	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	94	90	4.3	84	88	4.7	40 - 140	30
b-BHC	ND	1.0	95	91	4.3	18	14	25.0	40 - 140	30
Chlordane	ND	33	103	100	3.0	72	80	10.5	40 - 140	30
d-BHC	ND	3.3	92	88	4.4	54	56	3.6	40 - 140	30
Dieldrin	ND	1.0	103	100	3.0	77	91	16.7	40 - 140	30
Endosulfan I	ND	3.3	91	91	0.0	64	72	11.8	40 - 140	30
Endosulfan II	ND	3.3	100	100	0.0	70	74	5.6	40 - 140	30
Endosulfan sulfate	ND	3.3	91	86	5.6	61	67	9.4	40 - 140	30
Endrin	ND	3.3	98	94	4.2	65	71	8.8	40 - 140	30
Endrin aldehyde	ND	3.3	98	93	5.2	51	60	16.2	40 - 140	30
Endrin ketone	ND	3.3	100	94	6.2	66	73	10.1	40 - 140	30
g-BHC	ND	1.0	85	82	3.6	80	76	5.1	40 - 140	30
Heptachlor	ND	3.3	81	78	3.8	90	100	10.5	40 - 140	30
Heptachlor epoxide	ND	3.3	87	87	0.0	63	70	10.5	40 - 140	30
Methoxychlor	ND	3.3	99	91	8.4	71	79	10.7	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	87	%	98	89	9.6	69	84	19.6	30 - 150	30
% DCBP (Confirmation)	89	%	101	92	9.3	62	71	13.5	30 - 150	30
% TCMX	79	%	82	77	6.3	72	69	4.3	30 - 150	30
% TCMX (Confirmation)	84	%	86	81	6.0	70	68	2.9	30 - 150	30

QA/QC Batch 677640 (ug/kg), QC Sample No: CO01219 (CO01219)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	55	61	10.3	59	52	12.6	40 - 140	30
Acenaphthene	ND	230	57	63	10.0	62	53	15.7	30 - 130	30
Acenaphthylene	ND	230	57	63	10.0	63	54	15.4	40 - 140	30
Anthracene	ND	230	63	69	9.1	62	55	12.0	40 - 140	30
Benz(a)anthracene	ND	230	56	62	10.2	49	42	15.4	40 - 140	30
Benzo(a)pyrene	ND	230	68	75	9.8	59	50	16.5	40 - 140	30
Benzo(b)fluoranthene	ND	230	61	68	10.9	49	42	15.4	40 - 140	30
Benzo(ghi)perylene	ND	230	65	73	11.6	53	46	14.1	40 - 140	30
Benzo(k)fluoranthene	ND	230	58	65	11.4	58	49	16.8	40 - 140	30
Chrysene	ND	230	62	69	10.7	53	46	14.1	40 - 140	30

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Dibenz(a,h)anthracene	ND	230	66	75	12.8	60	53	12.4	40 - 140	30
Fluoranthene	ND	230	65	71	8.8	46	42	9.1	40 - 140	30
Fluorene	ND	230	64	71	10.4	69	59	15.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	67	74	9.9	55	47	15.7	40 - 140	30
Naphthalene	ND	230	52	59	12.6	57	49	15.1	40 - 140	30
Phenanthrene	ND	230	61	67	9.4	51	44	14.7	40 - 140	30
Pyrene	ND	230	65	70	7.4	51	46	10.3	30 - 130	30
% 2-Fluorobiphenyl	69	%	54	61	12.2	59	48	20.6	30 - 130	30
% Nitrobenzene-d5	74	%	57	63	10.0	67	54	21.5	30 - 130	30
% Terphenyl-d14	74	%	58	62	6.7	64	56	13.3	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 677756 (ug/kg), QC Sample No: CO01235 (CO01220, CO01221)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	64	60	6.5	57	60	5.1	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	65	61	6.3	55	54	1.8	40 - 140	30
1,2-Dichlorobenzene	ND	180	64	56	13.3	50	47	6.2	40 - 140	30
1,2-Diphenylhydrazine	ND	230	72	67	7.2	64	71	10.4	40 - 140	30
1,3-Dichlorobenzene	ND	230	61	54	12.2	48	45	6.5	40 - 140	30
1,4-Dichlorobenzene	ND	230	63	56	11.8	50	46	8.3	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	63	58	8.3	53	51	3.8	40 - 140	30
2,4,5-Trichlorophenol	ND	230	78	71	9.4	67	75	11.3	40 - 140	30
2,4,6-Trichlorophenol	ND	130	73	69	5.6	64	68	6.1	30 - 130	30
2,4-Dichlorophenol	ND	130	75	69	8.3	65	71	8.8	30 - 130	30
2,4-Dimethylphenol	ND	230	72	69	4.3	64	70	9.0	30 - 130	30
2,4-Dinitrophenol	ND	230	23	51	75.7	53	44	18.6	30 - 130	30
2,4-Dinitrotoluene	ND	130	92	85	7.9	78	88	12.0	30 - 130	30
2,6-Dinitrotoluene	ND	130	87	81	7.1	74	82	10.3	40 - 140	30
2-Chloronaphthalene	ND	230	72	67	7.2	62	67	7.8	40 - 140	30
2-Chlorophenol	ND	230	70	62	12.1	57	59	3.4	30 - 130	30
2-Methylnaphthalene	ND	230	68	63	7.6	59	63	6.6	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	72	65	10.2	59	62	5.0	40 - 140	30
2-Nitroaniline	ND	330	100	95	5.1	89	97	8.6	40 - 140	30
2-Nitrophenol	ND	230	78	74	5.3	63	67	6.2	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	75	68	9.8	63	67	6.2	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	81	76	6.4	71	78	9.4	40 - 140	30
3-Nitroaniline	ND	330	93	85	9.0	79	87	9.6	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	54	78	36.4	81	82	1.2	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	84	76	10.0	70	78	10.8	40 - 140	30
4-Chloro-3-methylphenol	ND	230	80	73	9.2	72	80	10.5	30 - 130	30
4-Chloroaniline	ND	230	71	66	7.3	61	66	7.9	40 - 140	30
4-Chlorophenyl phenyl ether	ND	230	77	71	8.1	68	73	7.1	40 - 140	30
4-Nitroaniline	ND	230	82	76	7.6	71	77	8.1	40 - 140	30
4-Nitrophenol	ND	230	62	58	6.7	49	62	23.4	30 - 130	30
Acenaphthene	ND	230	72	65	10.2	61	66	7.9	30 - 130	30
Acenaphthylene	ND	130	72	65	10.2	61	67	9.4	40 - 140	30
Acetophenone	ND	230	66	60	9.5	55	56	1.8	40 - 140	30
Aniline	ND	330	66	58	12.9	54	54	0.0	40 - 140	30
Anthracene	ND	230	82	76	7.6	69	77	11.0	40 - 140	30
Benz(a)anthracene	ND	230	78	73	6.6	68	76	11.1	40 - 140	30
Benzidine	ND	330	74	48	42.6	62	75	19.0	40 - 140	30

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(a)pyrene	ND	130	89	83	7.0	75	82	8.9	40 - 140	30
Benzo(b)fluoranthene	ND	160	83	76	8.8	70	77	9.5	40 - 140	30
Benzo(ghi)perylene	ND	230	89	82	8.2	76	85	11.2	40 - 140	30
Benzo(k)fluoranthene	ND	230	77	73	5.3	65	72	10.2	40 - 140	30
Benzoic Acid	ND	670	<10	12	NC	<10	<10	NC	30 - 130	30
Benzyl butyl phthalate	ND	230	85	80	6.1	72	80	10.5	40 - 140	30
Bis(2-chloroethoxy)methane	ND	230	69	64	7.5	59	63	6.6	40 - 140	30
Bis(2-chloroethyl)ether	ND	130	63	57	10.0	51	50	2.0	40 - 140	30
Bis(2-ethylhexyl)phthalate	ND	230	83	78	6.2	70	79	12.1	40 - 140	30
Carbazole	ND	230	81	76	6.4	69	78	12.2	40 - 140	30
Chrysene	ND	230	82	78	5.0	72	80	10.5	40 - 140	30
Dibenz(a,h)anthracene	ND	130	89	79	11.9	73	82	11.6	40 - 140	30
Dibenzofuran	ND	230	74	66	11.4	62	68	9.2	40 - 140	30
Diethyl phthalate	ND	230	79	73	7.9	69	74	7.0	40 - 140	30
Dimethylphthalate	ND	230	78	71	9.4	66	73	10.1	40 - 140	30
Di-n-butylphthalate	ND	670	87	82	5.9	73	82	11.6	40 - 140	30
Di-n-octylphthalate	ND	230	88	82	7.1	74	82	10.3	40 - 140	30
Fluoranthene	ND	230	85	79	7.3	73	83	12.8	40 - 140	30
Fluorene	ND	230	79	74	6.5	69	76	9.7	40 - 140	30
Hexachlorobenzene	ND	130	83	77	7.5	73	81	10.4	40 - 140	30
Hexachlorobutadiene	ND	230	66	61	7.9	55	53	3.7	40 - 140	30
Hexachlorocyclopentadiene	ND	230	50	46	8.3	33	34	3.0	40 - 140	30
Hexachloroethane	ND	130	63	56	11.8	50	47	6.2	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	88	80	9.5	76	85	11.2	40 - 140	30
Isophorone	ND	130	61	58	5.0	54	58	7.1	40 - 140	30
Naphthalene	ND	230	67	61	9.4	56	58	3.5	40 - 140	30
Nitrobenzene	ND	130	70	62	12.1	57	58	1.7	40 - 140	30
N-Nitrosodimethylamine	ND	230	56	49	13.3	43	42	2.4	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	68	63	7.6	59	60	1.7	40 - 140	30
N-Nitrosodiphenylamine	ND	130	79	72	9.3	68	74	8.5	40 - 140	30
Pentachloronitrobenzene	ND	230	79	72	9.3	65	74	12.9	40 - 140	30
Pentachlorophenol	ND	230	48	41	15.7	35	40	13.3	30 - 130	30
Phenanthrene	ND	130	79	73	7.9	68	75	9.8	40 - 140	30
Phenol	ND	230	77	70	9.5	67	71	5.8	30 - 130	30
Pyrene	ND	230	84	78	7.4	72	82	13.0	30 - 130	30
Pyridine	ND	230	45	39	14.3	35	35	0.0	40 - 140	30
% 2,4,6-Tribromophenol	68	%	82	77	6.3	71	80	11.9	30 - 130	30
% 2-Fluorobiphenyl	59	%	69	62	10.7	59	63	6.6	30 - 130	30
% 2-Fluorophenol	56	%	64	57	11.6	51	52	1.9	30 - 130	30
% Nitrobenzene-d5	56	%	64	57	11.6	53	53	0.0	30 - 130	30
% Phenol-d5	60	%	73	65	11.6	61	64	4.8	30 - 130	30
% Terphenyl-d14	64	%	72	66	8.7	59	68	14.2	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 677949 (ug/kg), QC Sample No: CO04457 (CO01219)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	113	111	1.8	108	108	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	112	109	2.7	108	110	1.8	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	104	100	3.9	100	102	2.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	106	104	1.9	99	100	1.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	106	106	0.0	100	103	3.0	70 - 130	30

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
1,1-Dichloropropene	ND	5.0	105	102	2.9	99	97	2.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	115	113	1.8	107	106	0.9	70 - 130	30	
1,2-Dibromoethane	ND	5.0	105	103	1.9	104	103	1.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	112	108	3.6	114	114	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	101	99	2.0	96	97	1.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	105	101	3.9	104	101	2.9	70 - 130	30	
2,2-Dichloropropane	ND	5.0	117	115	1.7	108	109	0.9	70 - 130	30	
2-Hexanone	ND	25	98	99	1.0	101	99	2.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	104	104	0.0	104	105	1.0	70 - 130	30	
Acetone	ND	10	97	106	8.9	NC	>200	NC	70 - 130	30	m
Acrylonitrile	ND	5.0	95	98	3.1	91	94	3.2	70 - 130	30	
Benzene	ND	1.0	101	98	3.0	96	95	1.0	70 - 130	30	
Bromochloromethane	ND	5.0	99	98	1.0	97	101	4.0	70 - 130	30	
Bromodichloromethane	ND	5.0	114	111	2.7	108	110	1.8	70 - 130	30	
Bromoform	ND	5.0	115	111	3.5	103	104	1.0	70 - 130	30	
Bromomethane	ND	5.0	107	110	2.8	109	108	0.9	70 - 130	30	
Carbon Disulfide	ND	5.0	102	101	1.0	91	94	3.2	70 - 130	30	
Carbon tetrachloride	ND	5.0	113	114	0.9	105	109	3.7	70 - 130	30	
Chlorobenzene	ND	5.0	103	100	3.0	100	96	4.1	70 - 130	30	
Chloroethane	ND	5.0	115	114	0.9	108	111	2.7	70 - 130	30	
Chloroform	ND	5.0	103	101	2.0	101	104	2.9	70 - 130	30	
Chloromethane	ND	5.0	89	92	3.3	74	75	1.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	101	99	2.0	96	98	2.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	114	112	1.8	106	108	1.9	70 - 130	30	
Dibromochloromethane	ND	3.0	116	111	4.4	106	107	0.9	70 - 130	30	
Dibromomethane	ND	5.0	110	107	2.8	107	109	1.9	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	87	87	0.0	66	67	1.5	70 - 130	30	m
Ethylbenzene	ND	1.0	103	99	4.0	100	95	5.1	70 - 130	30	
m&p-Xylene	ND	2.0	101	98	3.0	97	93	4.2	70 - 130	30	
Methyl ethyl ketone	ND	5.0	91	95	4.3	95	94	1.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	108	107	0.9	138	135	2.2	70 - 130	30	m
Methylene chloride	ND	5.0	104	102	1.9	104	104	0.0	70 - 130	30	
o-Xylene	ND	2.0	101	98	3.0	98	95	3.1	70 - 130	30	
Styrene	ND	5.0	103	99	4.0	100	97	3.0	70 - 130	30	
Tetrachloroethene	ND	5.0	102	99	3.0	97	94	3.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	92	93	1.1	85	95	11.1	70 - 130	30	
Toluene	ND	1.0	105	101	3.9	100	99	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	108	107	0.9	104	105	1.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	121	118	2.5	114	116	1.7	70 - 130	30	
Trichloroethene	ND	5.0	102	99	3.0	16	93	141.3	70 - 130	30	m,r
Trichlorofluoromethane	ND	5.0	111	111	0.0	105	107	1.9	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	97	98	1.0	90	89	1.1	70 - 130	30	
Vinyl chloride	ND	5.0	99	99	0.0	87	90	3.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	%	103	102	1.0	102	103	1.0	70 - 130	30	
% Bromofluorobenzene	103	%	102	102	0.0	104	103	1.0	70 - 130	30	
% Dibromofluoromethane	96	%	98	96	2.1	93	100	7.3	70 - 130	30	
% Toluene-d8	94	%	102	103	1.0	103	103	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 677949H (ug/kg), QC Sample No: CO04457 50X (CO01219 (50X))

Volatiles - Soil (High Level)

1,1,2,2-Tetrachloroethane	ND	250	95	99	4.1	81	98	19.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	108	111	2.7	86	106	20.8	70 - 130	30
1,2,3-Trichloropropane	ND	250	95	98	3.1	85	98	14.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	107	108	0.9	84	103	20.3	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	104	105	1.0	86	103	18.0	70 - 130	30
1,2-Dichlorobenzene	ND	250	101	103	2.0	84	102	19.4	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	104	105	1.0	87	104	17.8	70 - 130	30
1,3-Dichlorobenzene	ND	250	101	100	1.0	82	99	18.8	70 - 130	30
1,4-Dichlorobenzene	ND	250	101	103	2.0	83	100	18.6	70 - 130	30
2-Chlorotoluene	ND	250	106	106	0.0	86	104	18.9	70 - 130	30
2-Isopropyltoluene	ND	250	103	104	1.0	85	103	19.1	70 - 130	30
4-Chlorotoluene	ND	250	103	103	0.0	85	101	17.2	70 - 130	30
Bromobenzene	ND	250	102	102	0.0	84	102	19.4	70 - 130	30
Hexachlorobutadiene	ND	250	107	109	1.9	87	101	14.9	70 - 130	30
Isopropylbenzene	ND	250	105	105	0.0	87	104	17.8	70 - 130	30
Naphthalene	ND	250	107	111	3.7	88	108	20.4	70 - 130	30
n-Butylbenzene	ND	250	113	113	0.0	90	110	20.0	70 - 130	30
n-Propylbenzene	ND	250	106	107	0.9	87	104	17.8	70 - 130	30
p-Isopropyltoluene	ND	250	107	108	0.9	87	105	18.8	70 - 130	30
sec-Butylbenzene	ND	250	106	106	0.0	87	104	17.8	70 - 130	30
tert-Butylbenzene	ND	250	104	106	1.9	87	105	18.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	109	111	1.8	79	100	23.5	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	101	102	1.0	101	103	2.0	70 - 130	30
% Bromofluorobenzene	103	%	100	101	1.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	93	%	101	99	2.0	97	100	3.0	70 - 130	30
% Toluene-d8	94	%	103	102	1.0	101	103	2.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677732 (ug/kg), QC Sample No: CO04681 (CO01220, CO01221, CO01229)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	110	110	0.0				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	102	104	1.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	99	99	0.0				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	99	104	4.9				70 - 130	30
1,1-Dichloroethane	ND	5.0	85	85	0.0				70 - 130	30
1,1-Dichloroethene	ND	5.0	100	104	3.9				70 - 130	30
1,1-Dichloropropene	ND	5.0	97	97	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	92	91	1.1				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	102	104	1.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	87	85	2.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	96	93	3.2				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	106	113	6.4				70 - 130	30
1,2-Dibromoethane	ND	5.0	102	104	1.9				70 - 130	30
1,2-Dichlorobenzene	ND	5.0	99	97	2.0				70 - 130	30
1,2-Dichloroethane	ND	5.0	102	104	1.9				70 - 130	30
1,2-Dichloropropane	ND	5.0	97	100	3.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	101	95	6.1				70 - 130	30
1,3-Dichlorobenzene	ND	5.0	94	92	2.2				70 - 130	30
1,3-Dichloropropane	ND	5.0	100	103	3.0				70 - 130	30

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
1,4-Dichlorobenzene	ND	5.0	96	93	3.2				70 - 130	30
2,2-Dichloropropane	ND	5.0	94	94	0.0				70 - 130	30
2-Chlorotoluene	ND	5.0	99	97	2.0				70 - 130	30
2-Hexanone	ND	25	97	101	4.0				70 - 130	30
2-Isopropyltoluene	ND	5.0	102	97	5.0				70 - 130	30
4-Chlorotoluene	ND	5.0	97	93	4.2				70 - 130	30
4-Methyl-2-pentanone	ND	25	100	106	5.8				70 - 130	30
Acetone	ND	10	90	101	11.5				70 - 130	30
Acrylonitrile	ND	5.0	90	97	7.5				70 - 130	30
Benzene	ND	1.0	96	96	0.0				70 - 130	30
Bromobenzene	ND	5.0	104	101	2.9				70 - 130	30
Bromochloromethane	ND	5.0	102	108	5.7				70 - 130	30
Bromodichloromethane	ND	5.0	105	106	0.9				70 - 130	30
Bromoform	ND	5.0	112	113	0.9				70 - 130	30
Bromomethane	ND	5.0	95	95	0.0				70 - 130	30
Carbon Disulfide	ND	5.0	91	94	3.2				70 - 130	30
Carbon tetrachloride	ND	5.0	106	107	0.9				70 - 130	30
Chlorobenzene	ND	5.0	100	98	2.0				70 - 130	30
Chloroethane	ND	5.0	101	103	2.0				70 - 130	30
Chloroform	ND	5.0	97	100	3.0				70 - 130	30
Chloromethane	ND	5.0	92	89	3.3				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	100	104	3.9				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	103	105	1.9				70 - 130	30
Dibromochloromethane	ND	3.0	109	109	0.0				70 - 130	30
Dibromomethane	ND	5.0	105	108	2.8				70 - 130	30
Dichlorodifluoromethane	ND	5.0	80	77	3.8				70 - 130	30
Ethylbenzene	ND	1.0	98	96	2.1				70 - 130	30
Hexachlorobutadiene	ND	5.0	96	88	8.7				70 - 130	30
Isopropylbenzene	ND	1.0	102	98	4.0				70 - 130	30
m&p-Xylene	ND	2.0	96	93	3.2				70 - 130	30
Methyl ethyl ketone	ND	5.0	99	99	0.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	107	8.8				70 - 130	30
Methylene chloride	ND	5.0	96	102	6.1				70 - 130	30
Naphthalene	ND	5.0	101	103	2.0				70 - 130	30
n-Butylbenzene	ND	1.0	99	92	7.3				70 - 130	30
n-Propylbenzene	ND	1.0	101	95	6.1				70 - 130	30
o-Xylene	ND	2.0	97	96	1.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	100	94	6.2				70 - 130	30
sec-Butylbenzene	ND	1.0	101	95	6.1				70 - 130	30
Styrene	ND	5.0	97	96	1.0				70 - 130	30
tert-Butylbenzene	ND	1.0	103	98	5.0				70 - 130	30
Tetrachloroethene	ND	5.0	101	98	3.0				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	94	103	9.1				70 - 130	30
Toluene	ND	1.0	101	99	2.0				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	99	101	2.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	104	110	5.6				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	107	112	4.6				70 - 130	30
Trichloroethene	ND	5.0	104	104	0.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	98	98	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	91	92	1.1				70 - 130	30
Vinyl chloride	ND	5.0	98	98	0.0				70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	102	102	0.0				70 - 130	30
% Bromofluorobenzene	100	%	99	99	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Dibromofluoromethane	100	%	103	107	3.8				70 - 130	30
% Toluene-d8	95	%	102	101	1.0				70 - 130	30

Comment:

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677732H (ug/kg), QC Sample No: CO04681 50X (CO01230 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	105	102	2.9	99	98	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	250	106	103	2.9	98	102	4.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	97	96	1.0	94	98	4.2	70 - 130	30
1,1,2-Trichloroethane	ND	250	98	97	1.0	96	97	1.0	70 - 130	30
1,1-Dichloroethane	ND	250	88	104	16.7	86	84	2.4	70 - 130	30
1,1-Dichloroethene	ND	250	108	103	4.7	109	107	1.9	70 - 130	30
1,1-Dichloropropene	ND	250	105	104	1.0	105	104	1.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	102	99	3.0	99	100	1.0	70 - 130	30
1,2,3-Trichloropropane	ND	250	98	95	3.1	95	97	2.1	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	99	93	6.3	98	96	2.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	102	100	2.0	101	100	1.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	103	99	4.0	95	102	7.1	70 - 130	30
1,2-Dibromoethane	ND	250	100	99	1.0	97	100	3.0	70 - 130	30
1,2-Dichlorobenzene	ND	250	104	101	2.9	104	103	1.0	70 - 130	30
1,2-Dichloroethane	ND	250	104	102	1.9	102	102	0.0	70 - 130	30
1,2-Dichloropropane	ND	250	98	99	1.0	99	98	1.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	106	104	1.9	107	104	2.8	70 - 130	30
1,3-Dichlorobenzene	ND	250	102	99	3.0	103	100	3.0	70 - 130	30
1,3-Dichloropropane	ND	250	100	98	2.0	99	100	1.0	70 - 130	30
1,4-Dichlorobenzene	ND	250	103	101	2.0	104	102	1.9	70 - 130	30
2,2-Dichloropropane	ND	250	99	98	1.0	77	85	9.9	70 - 130	30
2-Chlorotoluene	ND	250	105	105	0.0	104	103	1.0	70 - 130	30
2-Hexanone	ND	1300	90	89	1.1	86	91	5.6	70 - 130	30
2-Isopropyltoluene	ND	250	107	104	2.8	106	105	0.9	70 - 130	30
4-Chlorotoluene	ND	250	104	100	3.9	103	102	1.0	70 - 130	30
4-Methyl-2-pentanone	ND	1300	91	89	2.2	87	90	3.4	70 - 130	30
Acetone	ND	500	79	77	2.6	79	78	1.3	70 - 130	30
Acrylonitrile	ND	250	92	88	4.4	90	91	1.1	70 - 130	30
Benzene	ND	250	100	99	1.0	99	99	0.0	70 - 130	30
Bromobenzene	ND	250	104	103	1.0	104	105	1.0	70 - 130	30
Bromochloromethane	ND	250	103	100	3.0	100	103	3.0	70 - 130	30
Bromodichloromethane	ND	250	100	98	2.0	97	96	1.0	70 - 130	30
Bromoform	ND	250	94	88	6.6	86	89	3.4	70 - 130	30
Bromomethane	ND	250	70	73	4.2	69	71	2.9	70 - 130	30
Carbon Disulfide	ND	250	91	89	2.2	86	86	0.0	70 - 130	30
Carbon tetrachloride	ND	250	99	97	2.0	84	90	6.9	70 - 130	30
Chlorobenzene	ND	250	103	100	3.0	103	102	1.0	70 - 130	30
Chloroethane	ND	250	25	25	0.0	25	25	0.0	70 - 130	30
Chloroform	ND	250	94	99	5.2	92	100	8.3	70 - 130	30
Chloromethane	ND	250	92	89	3.3	84	84	0.0	70 - 130	30
cis-1,2-Dichloroethene	ND	250	103	102	1.0	103	103	0.0	70 - 130	30
cis-1,3-Dichloropropene	ND	250	99	99	0.0	90	92	2.2	70 - 130	30
Dibromochloromethane	ND	150	98	96	2.1	93	94	1.1	70 - 130	30
Dibromomethane	ND	250	102	101	1.0	102	102	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCO01217

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Dichlorodifluoromethane	ND	250	84	81	3.6	75	74	1.3	70 - 130	30
Ethylbenzene	ND	250	102	101	1.0	104	103	1.0	70 - 130	30
Hexachlorobutadiene	ND	250	108	103	4.7	103	104	1.0	70 - 130	30
Isopropylbenzene	ND	250	108	106	1.9	108	108	0.0	70 - 130	30
m&p-Xylene	ND	250	101	100	1.0	102	101	1.0	70 - 130	30
Methyl ethyl ketone	ND	250	89	90	1.1	88	91	3.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	101	100	1.0	99	102	3.0	70 - 130	30
Methylene chloride	ND	250	99	98	1.0	100	99	1.0	70 - 130	30
Naphthalene	ND	250	107	102	4.8	103	105	1.9	70 - 130	30
n-Butylbenzene	ND	250	111	108	2.7	111	108	2.7	70 - 130	30
n-Propylbenzene	ND	250	108	107	0.9	108	107	0.9	70 - 130	30
o-Xylene	ND	250	101	99	2.0	100	100	0.0	70 - 130	30
p-Isopropyltoluene	ND	250	110	106	3.7	110	108	1.8	70 - 130	30
sec-Butylbenzene	ND	250	108	107	0.9	107	106	0.9	70 - 130	30
Styrene	ND	250	99	97	2.0	100	98	2.0	70 - 130	30
tert-Butylbenzene	ND	250	108	105	2.8	106	107	0.9	70 - 130	30
Tetrachloroethene	ND	250	108	107	0.9	110	107	2.8	70 - 130	30
Tetrahydrofuran (THF)	ND	250	94	91	3.2	90	95	5.4	70 - 130	30
Toluene	ND	250	103	102	1.0	104	103	1.0	70 - 130	30
trans-1,2-Dichloroethene	ND	250	106	105	0.9	107	107	0.0	70 - 130	30
trans-1,3-Dichloropropene	ND	250	99	99	0.0	88	92	4.4	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	96	93	3.2	81	89	9.4	70 - 130	30
Trichloroethene	ND	250	105	104	1.0	106	105	0.9	70 - 130	30
Trichlorofluoromethane	ND	250	24	42	54.5	32	23	32.7	70 - 130	30
Trichlorotrifluoroethane	ND	250	101	99	2.0	103	100	3.0	70 - 130	30
Vinyl chloride	ND	250	85	83	2.4	83	84	1.2	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	104	101	2.9	102	103	1.0	70 - 130	30
% Bromofluorobenzene	99	%	97	98	1.0	97	96	1.0	70 - 130	30
% Dibromofluoromethane	98	%	98	101	3.0	100	100	0.0	70 - 130	30
% Toluene-d8	95	%	102	102	0.0	101	101	0.0	70 - 130	30

l,m,r

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

May 30, 2023

Tuesday, May 30, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO01217 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO01217	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	700	260	500	500	mg/Kg
CO01218	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1200	300	500	500	mg/Kg
CO01220	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CO01220	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CO01220	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CO01220	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	270	1000	1000	ug/Kg
CO01220	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CO01220	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CO01220	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CO01220	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1300	270	1000	1000	ug/Kg
CO01222	\$PEST_SMR	a-BHC	CT / RSR GB (mg/kg) / APS Organics	ND	29	10	10	ug/Kg
CO01222	\$PEST_SMR	4,4' -DDD	CT / RSR GB (mg/kg) / APS Organics	490	150	20	20	ug/Kg
CO01222	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	390	150	20	20	ug/Kg
CO01222	\$PEST_SMR	Aldrin	CT / RSR GB (mg/kg) / APS Organics	ND	29	10	10	ug/Kg
CO01222	\$PEST_SMR	b-BHC	CT / RSR GB (mg/kg) / APS Organics	ND	29	10	10	ug/Kg
CO01222	\$PEST_SMR	d-BHC	CT / RSR GB (mg/kg) / APS Organics	ND	29	10	10	ug/Kg
CO01222	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	420	150	20	20	ug/Kg
CO01222	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	ND	29	7	7	ug/Kg
CO01222	\$PEST_SMR	Heptachlor	CT / RSR GB (mg/kg) / Pesticides/TPH	ND	29	13	13	ug/Kg
CO01222	\$PEST_SMR	Heptachlor epoxide	CT / RSR GB (mg/kg) / Pesticides/TPH	ND	29	20	20	ug/Kg
CO01224	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	38	7.7	20	20	ug/Kg
CO01224	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	66	7.7	20	20	ug/Kg
CO01226	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	521	3.6	400	400	mg/Kg
CO01227	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	65	39	20	20	ug/Kg
CO01228	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	110	38	20	20	ug/Kg
CO01228	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	130	38	20	20	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO01217-CO01230

Sampling Date(s): 5/9/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the YPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, Mercury Narration, PEST Narration, SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Tuesday, May 30, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

May 30, 2023

SDG I.D.: GCO01217

SDG Comments

8270 Semi-volatile Organics: CO01219

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

CO01222 Pesticide comment

Not all requested reporting levels were achieved due to the presence of target and non target compounds. Please refer to the Sample Criteria Exceedances section of this report.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677757 (Samples: CO01217, CO01218, CO01219, CO01220, CO01221): -----

The LCS/LCSD RPD exceeds the method criteria for one surrogate, No significant variability is suspected. (% COD (surr))

Instrument:

AU-FID1 05/16/23-1 Jeff Bucko, Chemist 05/16/23

CO01219 (5X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (516A005_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID1 05/17/23-1 Jeff Bucko, Chemist 05/17/23

CO01217 (5X), CO01218 (5X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (517A005_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO01217, CO01218

Preceding CC 517A018 - % COD (surr) -36%L (30%)

Succeeding CC 517A029 - % COD (surr) -56%L (30%)

AU-FID11 05/15/23-1 Jeff Bucko, Chemist 05/15/23

CO01220 (1X)

The initial calibration (ETPH510I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (515A003) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO01220

Preceding CC 515A078 - None.

Succeeding CC 515A090 - % COD (surr) -56%L (30%)

AU-FID22 05/15/23-1 Jeff Bucko, Chemist 05/15/23

CO01221 (1X)

The initial calibration (ETPH306I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (515A004) and contained the following outliers: None.



Environmental Laboratories, Inc.
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RCP Certification Report

May 30, 2023

SDG I.D.: GCO01217

ETPH Narration

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO01221

Preceding CC 515A066 - None.

Succeeding CC 515A078 - % Terphenyl (surr) 37%H (30%)

QC (Batch Specific):

Batch 677757 (CO01131)

CO01217, CO01218, CO01219, CO01220, CO01221

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 677688 (Samples: CO01220, CO01221): -----

The MS recovery is above the upper range, no significant bias is suspected. (Mercury)

Instrument:

MERLIN 05/16/23 10:18

Ian Enders, Chemist 05/16/23

CO01220, CO01221

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Site Specific):

Batch 677688 (CO01220)

CO01220, CO01221

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: Mercury(128%)

All MSD recoveries were within 75 - 125 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.



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Certification Report

May 30, 2023

SDG I.D.: GCO01217

Mercury Narration

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 05/11/23 13:01 Ian Enders, Tina Hall, Chemist 05/11/23
CO01220, CO01221, CO01224, CO01225

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/12/23 11:29 Cindy Pearce, Ian Enders, Chemist 05/12/23
CO01222, CO01227, CO01228

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/16/23 08:16 Tina Hall, Chemist 05/16/23
CO01226

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 676903 (CN99505)

CO01220, CO01221, CO01222, CO01224, CO01225
All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 676904 (CO01285)

CO01226, CO01227, CO01228
All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Certified CRM ERA D119-540 was used as the LCS/LSCD
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 05/23/23-1 Saadia Chudary, Chemist 05/23/23



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PCB Narration

CO01226 (10X)

The initial calibration (PC0505AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0505BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD3 05/19/23-1 Saadia Chudary, Chemist 05/19/23

CO01227 (10X)

The initial calibration (PC0421AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0421BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD3 05/23/23-1 Saadia Chudary, Chemist 05/23/23

CO01220 (10X), CO01222 (10X), CO01224 (10X), CO01228 (10X)

The initial calibration (PC0421AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0421BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD48 05/18/23-1 Saadia Chudary, Chemist 05/18/23

CO01217 (10X), CO01218 (10X), CO01225 (10X)

The initial calibration (PC0327AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0327BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO01217, CO01218, CO01225

Preceding CC 518B022 - PCB 1260 17%H (%)
Succeeding CC 518B035 - PCB 1260 19%H (%)

QC (Batch Specific):

Batch 678000 (CO01773)

CO01217, CO01218, CO01225

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 678492 (CO08482)

CO01227

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 678912 (CO08490)

CO01220, CO01222, CO01224, CO01226, CO01228

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration



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RCP Certification Report

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SDG I.D.: GCO01217

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 678493 (Samples: CO01227): -----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (b-BHC, Chlordane, Endosulfan I)

Instrument:

AU-ECD33 05/22/23-1 Adam Werner, Chemist 05/22/23

CO01227 (10X)

The initial calibration (PS0420AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0420BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD35 05/19/23-1 Adam Werner, Chemist 05/19/23

CO01223 (2X), CO01227 (2X)

The initial calibration (PS0407AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0407BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO01223

Preceding CC 519B004 - d-BHC -23%L (20%)
Succeeding CC 519B017 - d-BHC -24%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CO01227

Preceding CC 519B030 - d-BHC -23%L (20%)
Succeeding CC 519B044 - d-BHC -22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD35 05/24/23-1 Adam Werner, Chemist 05/24/23

CO01228 (10X)

The initial calibration (PS0407AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0407BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD4 05/23/23-1 Adam Werner, Chemist 05/23/23

CO01222 (200X), CO01224 (2X), CO01226 (2X), CO01228 (2X)

The initial calibration (AC0515AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (AC0515BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:



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PEST Narration

Samples: CO01224, CO01226, CO01228

Preceding CC 523B021 - None.

Succeeding CC 523B034 - d-BHC -22%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD4 05/24/23-1

Adam Werner, Chemist 05/24/23

CO01220 (2X)

The initial calibration (AC0515AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (AC0515BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO01220

Preceding CC 524B004 - Endosulfan II -21%L (20%)

Succeeding CC 524B014 - Endrin 21%H (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

QC (Batch Specific):

Batch 678220 (CO04889)

CO01223

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 678493 (CO08482)

CO01227

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 678913 (CO08490)

CO01220, CO01222, CO01224, CO01226, CO01228

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration



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SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677756 (Samples: CO01220, CO01221): -----

Several QC recoveries are below the lower range. A low bias is possible. (Pyridine)

The LCS recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (2,4-Dinitrophenol)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Benzidine)

The QC recoveries for one analyte are below the method criteria. A low bias is likely. (Benzoic Acid)

Instrument:

CHEM06 05/16/23-1

Matt Richard, Chemist 05/16/23

CO01219 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_bn_0509):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0516_07-6_bn_0509):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM29 05/15/23-1

Matt Richard, Chemist 05/15/23

CO01220 (1X), CO01221 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_SPLIT_0501):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.076 (0.1), Hexachlorobenzene 0.089 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0515_06-29_SPLIT_0501):



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SVOA Narration

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

97% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2,4-Dinitrophenol 31%H (30%), 4,6-Dinitro-2-methylphenol 41%H (30%), Pentachlorophenol 36%L (30%)

The following compounds did not meet maximum % deviations: 4,6-Dinitro-2-methylphenol 41%H (40%)

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.082 (0.1), Hexachlorobenzene 0.088 (0.1)

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 677756 (CO01235)

CO01220, CO01221

All LCS recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(23%), Benzoic Acid(<10%)

All LCSD recoveries were within 40 - 140 with the following exceptions: Benzoic Acid(12%), Pyridine(39%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(75.7%), 4,6-Dinitro-2-methylphenol(36.4%), Benzidine(42.6%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 677640 (CO01219)

CO01219

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 677732H: -----

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s) so no significant variability is suspected. (Trichlorofluoromethane)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM18 05/12/23-2

Jane Li, Chemist 05/12/23

CO01220 (1X), CO01221 (1X), CO01229 (1X), CO01230 (50X)

Initial Calibration Evaluation (CHEM18/VT-M050823):



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VOA Narration

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Acetone 21% (20%), trans-1,4-dichloro-2-butene 31% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM18/0512_36-VT-M050823):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM18 05/15/23-1

Jane Li, Chemist 05/15/23

CO01219 (1X, 50X)

Initial Calibration Evaluation (CHEM18/VT-M051423):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 23% (20%), trans-1,4-dichloro-2-butene 34% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM18/0515_02-VT-M051423):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 677732 (CO04681)

CHEM18 5/12/2023-2

CO01220(1X), CO01221(1X), CO01229(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

The Low Level MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677732H (CO04681)

CHEM18 5/12/2023-2

CO01230(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(24%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(42%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Trichlorofluoromethane(54.5%)

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677949 (CO04457)

CHEM18 5/15/2023-1

CO01219(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.



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VOA Narration

All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 677949H (CO04457) CHEM18 5/15/2023-1

CO01219(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.1C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer: Tighe & Bond, Inc.

Address: 213 Court Street, Suite 1100
 Middletown, CT

Project: Brainard Airport

Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby

Invoice to: Tighe and Bond Westfield

QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Sampler's Signature: *[Signature]* **Date:** 5/9/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X=(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
D1217	HA-12A(0-0.5)	S	5/9/23	1348	CT ETH (DPT METHOD) VOCs (EPA 8260B) 1,4 Dioxane SVOCs (EPA 8270) PAHs (EPA 8270) Total RCRRA 8 Metals Total RSR 15 Metals Total Lead Total Arsenic PCBs (897) Soil VOCs (901) GL Soil Contain. (8) oz 40 ml VOA Vial (1) H2O GL Amber 100ml (1) AS (1) HCl PL H2SO4 (1) 250ml (1) 50ml (1) 100ml PL HNO3 250ml Bacteria Bottle with Bacteria Bottle as is
D1218	HA-12B(0-0.5)	S	5/9/23	1350	
O1219	HA-23(0-0.5)	S	5/9/23	1355	
O1220	HA-24(0-2)	S	5/9/23	1410	
O1221	HA-25(0-2)	S	5/9/23	1415	
O1222	HA-26(0-0.5)	S	5/9/23	1430	
O1223	HA-27(0-0.5)	S	5/9/23	1440	
O1224	HA-28(0-0.5)	S	5/9/23	1440	
O1225	HA-29(0-0.5)	S	5/9/23	1005	
O1226	HA-30(0-0.5)	S	5/9/23	1003	
O1227	HA-31(0-0.5)	S	5/9/23	1000	
O1228	HA-32(0-0.5)	S	5/9/23	1450	

Relinquished by: *[Signature]* **Accepted by:** *[Signature]*
Date: 5/9/23 1500
 5/9/23 1536

Comments, Special Requirements or Regulations:
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted. * SURCHARGE APPLIES

State where samples were collected: CT

CI
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1
 GW-2
 GW-3
 S-1 GW-1
 S-1 GW-2
 S-1 GW-3
 S-2 GW-1
 S-2 GW-2
 S-2 GW-3
 S-3 GW-1
 S-3 GW-2
 S-3 GW-3
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata
 Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

* SURCHARGE APPLIES

Coolant: IPK ICE No Yes No

Temp: / ° C Pg 1 of 2

Data Delivery/Contact Options:

Fax:
 Phone:
 Email: MPaulsson@TigheBond.com



Wednesday, June 28, 2023

Attn: Casey Watts
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO08002
Sample ID#s: CO08002 - CO08026

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 28, 2023

SDG I.D.: GCO08002

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-57(10-12)	CO08002	SOIL
B-58(8-10)	CO08003	SOIL
B-59(10-12)	CO08004	SOIL
DUP-7	CO08005	SOIL
B-63(10-12)	CO08006	SOIL
B-60(10-12)	CO08007	SOIL
B-64(10-12)	CO08008	SOIL
B-65(10-12)	CO08009	SOIL
B-88(1-3)	CO08010	SOIL
DUP-8	CO08011	SOIL
B-101(8-10)	CO08012	SOIL
B-89(3-5)	CO08013	SOIL
B-89(8-10)	CO08014	SOIL
B-90(0.5-2.5)	CO08015	SOIL
B-92(2-4)	CO08016	SOIL
B-92(8-10)	CO08017	SOIL
B-102(8-10)	CO08018	SOIL
B-115(1-3)	CO08019	SOIL
B-116 (1-3)	CO08020	SOIL
B-117(0.25-2.25)	CO08021	SOIL
B-117(8-10)	CO08022	SOIL
B-133(1-3)	CO08023	SOIL
DUP-9	CO08024	SOIL
TB051723L	CO08025	SOIL
TB051723H	CO08026	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date Time
05/17/23 10:25
05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
Phoenix ID: CO08002

Project ID: BRAINARD AIRPORT
Client ID: B-57(10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.38	0.50	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	71		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/27/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/27/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	84		%	1	05/27/23	JRB	50 - 150 %
% Terphenyl (surr)	80		%	1	05/27/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloropropene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.95	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloroethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloropropane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichloropropane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
2,2-Dichloropropane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
2-Chlorotoluene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
2-Hexanone	ND	48	ug/Kg	1	05/21/23	JLI	SW8260C
2-Isopropyltoluene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
4-Chlorotoluene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	48	ug/Kg	1	05/21/23	JLI	SW8260C
Acetone	ND	480	ug/Kg	1	05/21/23	JLI	SW8260C
Acrylonitrile	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Benzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromobenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromochloromethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromodichloromethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromoform	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromomethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon Disulfide	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon tetrachloride	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Chlorobenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroform	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Chloromethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromochloromethane	ND	5.7	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromomethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Dichlorodifluoromethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Ethylbenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Hexachlorobutadiene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Isopropylbenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
m&p-Xylene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	57	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	19	ug/Kg	1	05/21/23	JLI	SW8260C
Methylene chloride	ND	19	ug/Kg	1	05/21/23	JLI	SW8260C
Naphthalene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
n-Butylbenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
n-Propylbenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
o-Xylene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
p-Isopropyltoluene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
sec-Butylbenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Styrene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
tert-Butylbenzene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrachloroethene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	19	ug/Kg	1	05/21/23	JLI	SW8260C
Toluene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Total Xylenes	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	19	ug/Kg	1	05/21/23	JLI	SW8260C
Trichloroethene	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorofluoromethane	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	19	ug/Kg	1	05/21/23	JLI	SW8260C
Vinyl chloride	ND	9.5	ug/Kg	1	05/21/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/21/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/21/23	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/21/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/21/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	330	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	85		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	74		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 05/17/23 10:10
 05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08003

Project ID: BRAINARD AIRPORT
 Client ID: B-58(8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.52	0.42	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	77		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/27/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/27/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	66		%	1	05/27/23	JRB	50 - 150 %
% Terphenyl (surr)	64		%	1	05/27/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.66	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/21/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/21/23	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	05/21/23	JLI	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Benzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Bromoform	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroform	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromochloromethane	ND	3.9	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Isopropylbenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	39	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Styrene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Toluene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	05/21/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/21/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/21/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/21/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/21/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	68		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	66		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 05/17/23 9:45
 05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08004

Project ID: BRAINARD AIRPORT
 Client ID: B-59(10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.11	0.43	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	73		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	67	mg/Kg	1	05/27/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/27/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	81		%	1	05/27/23	JRB	50 - 150 %
% Terphenyl (surr)	80		%	1	05/27/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloropropene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.75	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloroethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloropropane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichloropropane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
2,2-Dichloropropane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
2-Chlorotoluene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
2-Hexanone	ND	37	ug/Kg	1	05/21/23	JLI	SW8260C
2-Isopropyltoluene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
4-Chlorotoluene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	37	ug/Kg	1	05/21/23	JLI	SW8260C
Acetone	ND	370	ug/Kg	1	05/21/23	JLI	SW8260C
Acrylonitrile	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Benzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromobenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromochloromethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromodichloromethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromoform	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Bromomethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon Disulfide	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon tetrachloride	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Chlorobenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroform	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Chloromethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromochloromethane	ND	4.5	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromomethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Dichlorodifluoromethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Ethylbenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Hexachlorobutadiene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Isopropylbenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
m&p-Xylene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	45	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Methylene chloride	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Naphthalene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
n-Butylbenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
n-Propylbenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
o-Xylene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
p-Isopropyltoluene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
sec-Butylbenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Styrene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
tert-Butylbenzene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrachloroethene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Toluene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Total Xylenes	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Trichloroethene	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorofluoromethane	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Vinyl chloride	ND	7.5	ug/Kg	1	05/21/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/21/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/21/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/21/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/21/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	91		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	76		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

9:46
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08005

Project ID: BRAINARD AIRPORT
 Client ID: DUP-7

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.43	0.42	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	76		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/27/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/27/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	85		%	1	05/27/23	JRB	50 - 150 %
% Terphenyl (surr)	84		%	1	05/27/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloropropene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.78	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloroethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloropropane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichloropropane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
2,2-Dichloropropane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
2-Chlorotoluene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
2-Hexanone	ND	39	ug/Kg	1	05/21/23	JLI	SW8260C
2-Isopropyltoluene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
4-Chlorotoluene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	39	ug/Kg	1	05/21/23	JLI	SW8260C
Acetone	ND	390	ug/Kg	1	05/21/23	JLI	SW8260C
Acrylonitrile	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Benzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Bromobenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Bromochloromethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Bromodichloromethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Bromoform	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Bromomethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon Disulfide	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon tetrachloride	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Chlorobenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroform	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Chloromethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromochloromethane	ND	4.7	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromomethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Dichlorodifluoromethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Ethylbenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Hexachlorobutadiene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Isopropylbenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
m&p-Xylene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	47	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	05/21/23	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	05/21/23	JLI	SW8260C
Naphthalene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
n-Butylbenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
n-Propylbenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
o-Xylene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
p-Isopropyltoluene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
sec-Butylbenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Styrene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
tert-Butylbenzene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrachloroethene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	05/21/23	JLI	SW8260C
Toluene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Total Xylenes	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	05/21/23	JLI	SW8260C
Trichloroethene	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorofluoromethane	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	05/21/23	JLI	SW8260C
Vinyl chloride	ND	7.8	ug/Kg	1	05/21/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/21/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/21/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/21/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/21/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	78		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	68		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time

05/17/23 13:00
 05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08006

Project ID: BRAINARD AIRPORT
 Client ID: B-63(10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2.98	0.42	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	82		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	05/27/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/27/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	55		%	1	05/27/23	JRB	50 - 150 %
% Terphenyl (surr)	55		%	1	05/27/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/21/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/21/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/21/23	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/21/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/21/23	JLI	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/21/23	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/21/23	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/21/23	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/21/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/21/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/21/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/21/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/21/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	280	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	68		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	65		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 05/17/23 9:25
 05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08007

Project ID: BRAINARD AIRPORT
 Client ID: B-60(10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/26/23	B/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	320	mg/Kg	5	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	50		%	5	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	73		%	5	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.60	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/21/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/21/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/21/23	JLI	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Benzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Bromoform	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroform	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/21/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/21/23	JLI	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Styrene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/21/23	JLI	SW8260C
Toluene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/21/23	JLI	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/21/23	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	05/21/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/21/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/21/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/21/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/21/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date Time
05/17/23 12:40
05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
Phoenix ID: CO08008

Project ID: BRAINARD AIRPORT
Client ID: B-64(10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	65		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/26/23	B/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	76	mg/Kg	1	05/27/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/27/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	73		%	1	05/27/23	JRB	50 - 150 %
% Terphenyl (surr)	71		%	1	05/27/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.64	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
2-Chlorotoluene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	05/21/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
4-Chlorotoluene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	05/21/23	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	05/21/23	JLI	SW8260C
Acrylonitrile	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Benzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromobenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromochloromethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromodichloromethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromoform	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromomethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon Disulfide	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon tetrachloride	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Chlorobenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroform	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Chloromethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromomethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Ethylbenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Isopropylbenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
m&p-Xylene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Naphthalene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
n-Butylbenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
n-Propylbenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
o-Xylene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
sec-Butylbenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Styrene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
tert-Butylbenzene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrachloroethene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Toluene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Total Xylenes	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Trichloroethene	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/21/23	JLI	SW8260C
Vinyl chloride	ND	6.4	ug/Kg	1	05/21/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/21/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/21/23	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	05/21/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/21/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

12:20
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08009

Project ID: BRAINARD AIRPORT
 Client ID: B-65(10-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.89	0.43	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	76		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/28/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/28/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	59		%	1	05/28/23	JRB	50 - 150 %
% Terphenyl (surr)	59		%	1	05/28/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.5	ug/Kg	1	05/21/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloroethene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,1-Dichloropropene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.74	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloroethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,2-Dichloropropane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,3-Dichloropropane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
2,2-Dichloropropane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
2-Chlorotoluene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
2-Hexanone	ND	37	ug/Kg	1	05/21/23	JLI	SW8260C
2-Isopropyltoluene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
4-Chlorotoluene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	37	ug/Kg	1	05/21/23	JLI	SW8260C
Acetone	ND	370	ug/Kg	1	05/21/23	JLI	SW8260C
Acrylonitrile	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Benzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromobenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromochloromethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromodichloromethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromoform	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Bromomethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon Disulfide	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Carbon tetrachloride	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Chlorobenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Chloroform	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Chloromethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromochloromethane	ND	4.5	ug/Kg	1	05/21/23	JLI	SW8260C
Dibromomethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Dichlorodifluoromethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Ethylbenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Hexachlorobutadiene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Isopropylbenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
m&p-Xylene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	45	ug/Kg	1	05/21/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Methylene chloride	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Naphthalene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
n-Butylbenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
n-Propylbenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
o-Xylene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
p-Isopropyltoluene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
sec-Butylbenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Styrene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
tert-Butylbenzene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Tetrachloroethene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Toluene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Total Xylenes	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Trichloroethene	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorofluoromethane	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	15	ug/Kg	1	05/21/23	JLI	SW8260C
Vinyl chloride	ND	7.4	ug/Kg	1	05/21/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	05/21/23	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/21/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/21/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/21/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	86		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	73		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

11:45
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08010

Project ID: BRAINARD AIRPORT
 Client ID: B-88(1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	05/26/23	CPP	SW6010D
Arsenic	4.27	0.90	mg/Kg	1	05/26/23	CPP	SW6010D
Barium	83.3	0.45	mg/Kg	1	05/26/23	CPP	SW6010D
Beryllium	0.55	0.36	mg/Kg	1	05/26/23	CPP	SW6010D
Cadmium	0.68	0.45	mg/Kg	1	05/26/23	CPP	SW6010D
Chromium	30.6	0.45	mg/Kg	1	05/26/23	CPP	SW6010D
Copper	23.6	0.9	mg/kg	1	05/26/23	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/26/23	AL1	SW7471B
Nickel	29.0	0.45	mg/Kg	1	05/26/23	CPP	SW6010D
Lead	8.24	0.45	mg/Kg	1	05/26/23	CPP	SW6010D
Antimony	< 4.5	4.5	mg/Kg	1	05/26/23	CPP	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	05/26/23	CPP	SW6010D
SPLP Barium	0.011	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Beryllium	< 0.001	0.001	mg/L	1	06/27/23	TH	SW6010D
SPLP Nickel	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Vanadium	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
Thallium	< 4.1	4.1	mg/Kg	1	05/26/23	CPP	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Vanadium	35.3	0.45	mg/Kg	1	05/26/23	CPP	SW6010D
Zinc	70.7	0.9	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	75		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Mercury Digestion	Completed				05/26/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for PCB	Completed				05/26/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/26/23	B/A	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/28/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/28/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	76		%	1	05/28/23	JRB	50 - 150 %
% Terphenyl (surr)	72		%	1	05/28/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1221	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1232	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1242	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1248	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1254	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1260	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1262	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1268	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	93		%	10	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	100		%	10	05/27/23	SC	30 - 150 %
% TCMX	83		%	10	05/27/23	SC	30 - 150 %
% TCMX (Confirmation)	78		%	10	05/27/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.83	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	42	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	42	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	420	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	50	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	17	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	17	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	17	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	17	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	17	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	8.3	ug/Kg	1	05/23/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/23/23	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dimethylphenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrophenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chloronaphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylnaphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitroaniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitrophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
3-Nitroaniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloroaniline	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitroaniline	ND	700	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitrophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acetophenone	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Aniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(ghi)perylene	ND	700	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzoic acid	ND	880	ug/Kg	1	05/29/23	KCA	SW8270D
Benzyl butyl phthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-ethylhexyl)phthalate	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Carbazole	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Chrysene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	700	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenzofuran	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Diethyl phthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dimethylphthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-butylphthalate	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-octylphthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Fluorene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobutadiene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachloroethane	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	700	ug/Kg	1	05/29/23	KCA	SW8270D
Isophorone	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Nitrobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachloronitrobenzene	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachlorophenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Phenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Pyridine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	75		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	75		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorophenol	63		%	1	05/29/23	KCA	30 - 130 %
% Nitrobenzene-d5	66		%	1	05/29/23	KCA	30 - 130 %
% Phenol-d5	68		%	1	05/29/23	KCA	30 - 130 %
% Terphenyl-d14	74		%	1	05/29/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

11:46
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08011

Project ID: BRAINARD AIRPORT
 Client ID: DUP-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	05/26/23	CPP	SW6010D
Arsenic	4.30	0.79	mg/Kg	1	05/26/23	CPP	SW6010D
Barium	83.0	0.40	mg/Kg	1	05/26/23	CPP	SW6010D
Beryllium	0.55	0.32	mg/Kg	1	05/26/23	CPP	SW6010D
Cadmium	0.67	0.40	mg/Kg	1	05/26/23	CPP	SW6010D
Chromium	30.9	0.40	mg/Kg	1	05/26/23	CPP	SW6010D
Copper	24.2	0.8	mg/kg	1	05/26/23	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/26/23	AL1	SW7471B
Nickel	29.3	0.40	mg/Kg	1	05/26/23	CPP	SW6010D
Lead	8.78	0.40	mg/Kg	1	05/26/23	CPP	SW6010D
Antimony	< 4.0	4.0	mg/Kg	1	05/26/23	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/26/23	CPP	SW6010D
SPLP Barium	0.013	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Beryllium	< 0.001	0.001	mg/L	1	06/27/23	TH	SW6010D
SPLP Nickel	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Vanadium	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
Thallium	< 3.6	3.6	mg/Kg	1	05/26/23	CPP	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Vanadium	35.6	0.40	mg/Kg	1	05/26/23	CPP	SW6010D
Zinc	71.4	0.8	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	76		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Mercury Digestion	Completed				05/26/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for PCB	Completed				05/26/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/26/23	B/A	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/28/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/28/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	90		%	1	05/28/23	JRB	50 - 150 %
% Terphenyl (surr)	86		%	1	05/28/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1221	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1232	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1242	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1248	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1254	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1260	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1262	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1268	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	97		%	10	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	103		%	10	05/27/23	SC	30 - 150 %
% TCMX	92		%	10	05/27/23	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	05/27/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.59	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	99		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/23/23	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dichlorophenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dimethylphenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrophenol	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chloronaphthalene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chlorophenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylnaphthalene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitroaniline	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitrophenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
3-Nitroaniline	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloroaniline	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitroaniline	ND	690	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitrophenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Acetophenone	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Aniline	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
Anthracene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Benzoic acid	ND	860	ug/Kg	1	05/29/23	KCA	SW8270D
Benzyl butyl phthalate	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-ethylhexyl)phthalate	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
Carbazole	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
Chrysene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenzofuran	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Diethyl phthalate	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Dimethylphthalate	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-butylphthalate	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-octylphthalate	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobenzene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobutadiene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachloroethane	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Isophorone	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Nitrobenzene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachloronitrobenzene	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachlorophenol	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Phenol	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Pyrene	ND	300	ug/Kg	1	05/29/23	KCA	SW8270D
Pyridine	ND	430	ug/Kg	1	05/29/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	73		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	59		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorophenol	<10		%	1	05/29/23	KCA	30 - 130 %
% Nitrobenzene-d5	13		%	1	05/29/23	KCA	30 - 130 %
% Phenol-d5	32		%	1	05/29/23	KCA	30 - 130 %
% Terphenyl-d14	75		%	1	05/29/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 05/17/23 11:30
 05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08012

Project ID: BRAINARD AIRPORT
 Client ID: B-101(8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	68		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/30/23	B/F	SW3546
Soil Extraction for PCB	Completed				05/26/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/26/23	B/A	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	73	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	71		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	70		%	1	05/31/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	690	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1221	ND	690	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1232	ND	690	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1242	ND	690	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1248	ND	690	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1254	ND	690	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1260	ND	690	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1262	ND	690	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1268	ND	690	ug/Kg	5	05/27/23	SC	SW8082A

QA/QC Surrogates

% DCBP	79		%	5	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	82		%	5	05/27/23	SC	30 - 150 %
% TCMX	66		%	5	05/27/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	62		%	5	05/27/23	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.69	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	35	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	35	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	350	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	4.1	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	41	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	6.9	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/kg	1	05/23/23	JLI	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dichlorophenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dimethylphenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrophenol	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chloronaphthalene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chlorophenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylnaphthalene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitroaniline	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitrophenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
3-Nitroaniline	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloroaniline	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitroaniline	ND	770	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitrophenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthylene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Acetophenone	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Aniline	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
Anthracene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Benz(a)anthracene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(a)pyrene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(ghi)perylene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Benzoic acid	ND	970	ug/Kg	1	05/29/23	KCA	SW8270D
Benzyl butyl phthalate	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
Carbazole	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
Chrysene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenzofuran	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Diethyl phthalate	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Dimethylphthalate	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-butylphthalate	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-octylphthalate	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Fluoranthene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Fluorene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobenzene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobutadiene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachloroethane	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Isophorone	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Naphthalene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Nitrobenzene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachloronitrobenzene	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachlorophenol	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
Phenanthrene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Phenol	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Pyrene	ND	340	ug/Kg	1	05/29/23	KCA	SW8270D
Pyridine	ND	480	ug/Kg	1	05/29/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	74		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	72		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorophenol	61		%	1	05/29/23	KCA	30 - 130 %
% Nitrobenzene-d5	63		%	1	05/29/23	KCA	30 - 130 %
% Phenol-d5	66		%	1	05/29/23	KCA	30 - 130 %
% Terphenyl-d14	74		%	1	05/29/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

11:10
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08013

Project ID: BRAINARD AIRPORT
 Client ID: B-89(3-5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	1	05/26/23	CPP	SW6010D
Arsenic	3.26	0.89	mg/Kg	1	05/26/23	CPP	SW6010D
Barium	60.9	0.44	mg/Kg	1	05/26/23	CPP	SW6010D
Beryllium	0.44	0.36	mg/Kg	1	05/26/23	CPP	SW6010D
Cadmium	0.45	0.44	mg/Kg	1	05/26/23	CPP	SW6010D
Chromium	24.7	0.44	mg/Kg	1	05/26/23	CPP	SW6010D
Copper	19.1	0.9	mg/kg	1	05/26/23	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/26/23	AL1	SW7471B
Nickel	23.8	0.44	mg/Kg	1	05/26/23	CPP	SW6010D
Lead	5.44	0.44	mg/Kg	1	05/26/23	CPP	SW6010D
Antimony	< 4.4	4.4	mg/Kg	1	05/26/23	CPP	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	05/26/23	CPP	SW6010D
Thallium	< 4.0	4.0	mg/Kg	1	05/26/23	CPP	SW6010D
Vanadium	29.2	0.44	mg/Kg	1	05/26/23	CPP	SW6010D
Zinc	56.8	0.9	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	75		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Mercury Digestion	Completed				05/26/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for PCB	Completed				05/26/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/26/23	B/A	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	92		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	85		%	1	05/31/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1221	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1232	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1242	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1248	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1254	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1260	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1262	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1268	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	80		%	10	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	92		%	10	05/27/23	SC	30 - 150 %
% TCMX	77		%	10	05/27/23	SC	30 - 150 %
% TCMX (Confirmation)	75		%	10	05/27/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.60	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/23/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dimethylphenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrophenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chloronaphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylnaphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitroaniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitrophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
3-Nitroaniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloroaniline	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitroaniline	ND	700	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitrophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acetophenone	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Aniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzoic acid	ND	880	ug/Kg	1	05/29/23	KCA	SW8270D
Benzyl butyl phthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Carbazole	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Chrysene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenzofuran	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Diethyl phthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-butylphthalate	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-octylphthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Fluorene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobutadiene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachloroethane	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Isophorone	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Nitrobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachloronitrobenzene	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachlorophenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Phenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Pyridine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	75		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorophenol	63		%	1	05/29/23	KCA	30 - 130 %
% Nitrobenzene-d5	67		%	1	05/29/23	KCA	30 - 130 %
% Phenol-d5	67		%	1	05/29/23	KCA	30 - 130 %
% Terphenyl-d14	74		%	1	05/29/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

11:11
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08014

Project ID: BRAINARD AIRPORT
 Client ID: B-89(8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.51	0.51	mg/Kg	1	05/26/23	CPP	SW6010D
Arsenic	2.6	1.0	mg/Kg	1	05/26/23	CPP	SW6010D
Barium	62.9	0.51	mg/Kg	1	05/26/23	CPP	SW6010D
Beryllium	< 0.41	0.41	mg/Kg	1	05/26/23	CPP	SW6010D
Cadmium	< 0.51	0.51	mg/Kg	1	05/26/23	CPP	SW6010D
Chromium	22.9	0.51	mg/Kg	1	05/26/23	CPP	SW6010D
Copper	16.4	1.0	mg/kg	1	05/26/23	CPP	SW6010D
Mercury	< 0.01	0.01	mg/Kg	2	05/26/23	AL1	SW7471B
Nickel	20.4	0.51	mg/Kg	1	05/26/23	CPP	SW6010D
Lead	5.09	0.51	mg/Kg	1	05/26/23	CPP	SW6010D
Antimony	< 5.1	5.1	mg/Kg	1	05/26/23	CPP	SW6010D
Selenium	< 2.0	2.0	mg/Kg	1	05/26/23	CPP	SW6010D
Thallium	< 4.6	4.6	mg/Kg	1	05/26/23	CPP	SW6010D
Vanadium	27.0	0.51	mg/Kg	1	05/26/23	CPP	SW6010D
Zinc	52.0	1.0	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	70		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Mercury Digestion	Completed				05/26/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for PCB	Completed				05/26/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/26/23	B/A	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	71	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	66		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	63		%	1	05/31/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1221	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1232	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1242	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1248	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1254	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1260	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1262	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
PCB-1268	ND	700	ug/Kg	5	05/27/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	104		%	5	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	103		%	5	05/27/23	SC	30 - 150 %
% TCMX	92		%	5	05/27/23	SC	30 - 150 %
% TCMX (Confirmation)	86		%	5	05/27/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.71	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	36	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	36	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	360	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	4.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	43	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	14	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	7.1	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dichlorophenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dimethylphenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrophenol	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chloronaphthalene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chlorophenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylnaphthalene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitroaniline	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitrophenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
3-Nitroaniline	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloroaniline	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitroaniline	ND	750	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitrophenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthylene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Acetophenone	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Aniline	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
Anthracene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Benz(a)anthracene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(a)pyrene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(ghi)perylene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Benzoic acid	ND	930	ug/Kg	1	05/29/23	KCA	SW8270D
Benzyl butyl phthalate	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
Carbazole	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
Chrysene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenzofuran	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Diethyl phthalate	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-butylphthalate	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-octylphthalate	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Fluoranthene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Fluorene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobenzene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobutadiene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachloroethane	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Isophorone	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Naphthalene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Nitrobenzene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachloronitrobenzene	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachlorophenol	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
Phenanthrene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Phenol	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Pyrene	ND	330	ug/Kg	1	05/29/23	KCA	SW8270D
Pyridine	ND	470	ug/Kg	1	05/29/23	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	58		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	56		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorophenol	50		%	1	05/29/23	KCA	30 - 130 %
% Nitrobenzene-d5	52		%	1	05/29/23	KCA	30 - 130 %
% Phenol-d5	52		%	1	05/29/23	KCA	30 - 130 %
% Terphenyl-d14	53		%	1	05/29/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

12:05
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08015

Project ID: BRAINARD AIRPORT
 Client ID: B-90(0.5-2.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/26/23	CPP	SW6010D
Arsenic	3.93	0.73	mg/Kg	1	05/26/23	CPP	SW6010D
Barium	93.4	0.37	mg/Kg	1	05/26/23	CPP	SW6010D
Beryllium	0.51	0.29	mg/Kg	1	05/26/23	CPP	SW6010D
Cadmium	0.56	0.37	mg/Kg	1	05/26/23	CPP	SW6010D
Chromium	23.3	0.37	mg/Kg	1	05/26/23	CPP	SW6010D
Copper	22.4	0.7	mg/kg	1	05/26/23	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	05/26/23	AL1	SW7471B
Nickel	22.4	0.37	mg/Kg	1	05/26/23	CPP	SW6010D
Lead	15.9	0.37	mg/Kg	1	05/26/23	CPP	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/26/23	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/26/23	CPP	SW6010D
SPLP Barium	0.015	0.010	mg/L	1	06/27/23	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/26/23	CPP	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Vanadium	33.7	0.37	mg/Kg	1	05/26/23	CPP	SW6010D
Zinc	55.9	0.7	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	82		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Mercury Digestion	Completed				05/26/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/26/23	B/M	SW3546
Soil Extraction for PCB	Completed				05/26/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/26/23	B/A	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	05/27/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/27/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	67		%	1	05/27/23	JRB	50 - 150 %
% Terphenyl (surr)	77		%	1	05/27/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	05/27/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	105		%	10	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	05/27/23	SC	30 - 150 %
% TCMX	90		%	10	05/27/23	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	05/27/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.59	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	92		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dichlorophenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dimethylphenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrophenol	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chloronaphthalene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chlorophenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylnaphthalene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitroaniline	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitrophenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
3-Nitroaniline	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloroaniline	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitroaniline	ND	650	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitrophenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Acetophenone	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Aniline	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
Anthracene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Benzoic acid	ND	810	ug/Kg	1	05/29/23	KCA	SW8270D
Benzyl butyl phthalate	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbazole	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
Chrysene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenzofuran	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Diethyl phthalate	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Dimethylphthalate	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-butylphthalate	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-octylphthalate	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Fluoranthene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Fluorene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobenzene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobutadiene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachloroethane	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Isophorone	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Nitrobenzene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachloronitrobenzene	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachlorophenol	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Phenol	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Pyrene	ND	280	ug/Kg	1	05/29/23	KCA	SW8270D
Pyridine	ND	400	ug/Kg	1	05/29/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	63		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	62		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorophenol	50		%	1	05/29/23	KCA	30 - 130 %
% Nitrobenzene-d5	52		%	1	05/29/23	KCA	30 - 130 %
% Phenol-d5	55		%	1	05/29/23	KCA	30 - 130 %
% Terphenyl-d14	60		%	1	05/29/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

9:10
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08016

Project ID: BRAINARD AIRPORT
 Client ID: B-92(2-4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	05/26/23	CPP	SW6010D
Arsenic	4.00	0.82	mg/Kg	1	05/26/23	CPP	SW6010D
Barium	89.1	0.41	mg/Kg	1	05/26/23	CPP	SW6010D
Beryllium	0.56	0.33	mg/Kg	1	05/26/23	CPP	SW6010D
Cadmium	0.64	0.41	mg/Kg	1	05/26/23	CPP	SW6010D
Chromium	32.0	0.41	mg/Kg	1	05/26/23	CPP	SW6010D
Copper	25.1	0.8	mg/kg	1	05/26/23	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/26/23	AL1	SW7471B
Nickel	30.9	0.41	mg/Kg	1	05/26/23	CPP	SW6010D
Lead	8.16	0.41	mg/Kg	1	05/26/23	CPP	SW6010D
Antimony	< 4.1	4.1	mg/Kg	1	05/26/23	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/26/23	CPP	SW6010D
SPLP Barium	0.025	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Beryllium	< 0.001	0.001	mg/L	1	06/27/23	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Nickel	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Vanadium	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
Thallium	< 3.7	3.7	mg/Kg	1	05/26/23	CPP	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Vanadium	36.5	0.41	mg/Kg	1	05/26/23	CPP	SW6010D
Zinc	74.6	0.8	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	75		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Mercury Digestion	Completed				05/26/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for PCB	Completed				05/26/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/26/23	B/A	SW3546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	84		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	84		%	1	05/30/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1221	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1232	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1242	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1248	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1254	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1260	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1262	ND	440	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1268	ND	440	ug/Kg	10	05/27/23	SC	SW8082A

QA/QC Surrogates

% DCBP	80		%	10	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	05/27/23	SC	30 - 150 %
% TCMX	75		%	10	05/27/23	SC	30 - 150 %
% TCMX (Confirmation)	72		%	10	05/27/23	SC	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.54	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Isopropyltoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	90		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %

Semivolatiles

1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dimethylphenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrophenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chloronaphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylnaphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitroaniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitrophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
3-Nitroaniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloroaniline	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitroaniline	ND	700	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitrophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acetophenone	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Aniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzoic acid	ND	880	ug/Kg	1	05/29/23	KCA	SW8270D
Benzyl butyl phthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-chloroethyl)ether	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Carbazole	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Chrysene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenzofuran	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Diethyl phthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dimethylphthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-butylphthalate	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-octylphthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Fluorene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobutadiene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachloroethane	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Isophorone	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Nitrobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachloronitrobenzene	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachlorophenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Phenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Pyridine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	79		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	79		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorophenol	68		%	1	05/29/23	KCA	30 - 130 %
% Nitrobenzene-d5	69		%	1	05/29/23	KCA	30 - 130 %
% Phenol-d5	72		%	1	05/29/23	KCA	30 - 130 %
% Terphenyl-d14	77		%	1	05/29/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

9:11
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08017

Project ID: BRAINARD AIRPORT
 Client ID: B-92(8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.12	0.40	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	75		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	69		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.54	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	66		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	72		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	62		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 05/17/23 13:20
 05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08018

Project ID: BRAINARD AIRPORT
 Client ID: B-102(8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	74		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for PCB	Completed				05/26/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/26/23	B/A	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	74		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	05/30/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	920	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1221	ND	920	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1232	ND	920	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1242	ND	920	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1248	ND	920	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1254	ND	920	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1260	ND	920	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1262	ND	920	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1268	ND	920	ug/Kg	10	05/27/23	SC	SW8082A

QA/QC Surrogates

% DCBP	83		%	10	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	05/27/23	SC	30 - 150 %
% TCMX	76		%	10	05/27/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX (Confirmation)	72		%	10	05/27/23	SC	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.66	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	39	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	6.6	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	98	ug/kg	1	05/23/23	JLI	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dichlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dimethylphenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrophenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chloronaphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Chlorophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylnaphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitroaniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
2-Nitrophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
3-Nitroaniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chloroaniline	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitroaniline	ND	710	ug/Kg	1	05/29/23	KCA	SW8270D
4-Nitrophenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Acetophenone	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Aniline	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Benzoic acid	ND	880	ug/Kg	1	05/29/23	KCA	SW8270D
Benzyl butyl phthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Carbazole	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Chrysene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dibenzofuran	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Diethyl phthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Dimethylphthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-butylphthalate	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Di-n-octylphthalate	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Fluorene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorobutadiene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Hexachloroethane	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Isophorone	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Nitrobenzene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/29/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachloronitrobenzene	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Pentachlorophenol	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Phenol	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Pyrene	ND	310	ug/Kg	1	05/29/23	KCA	SW8270D
Pyridine	ND	440	ug/Kg	1	05/29/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	77		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	74		%	1	05/29/23	KCA	30 - 130 %
% 2-Fluorophenol	64		%	1	05/29/23	KCA	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/29/23	KCA	30 - 130 %
% Phenol-d5	67		%	1	05/29/23	KCA	30 - 130 %
% Terphenyl-d14	75		%	1	05/29/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

14:10
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08019

Project ID: BRAINARD AIRPORT
 Client ID: B-115(1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.90	0.45	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	80		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	92		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	90		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.44	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	22	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	22	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	220	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	2.7	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.9	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	8.9	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	8.9	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	8.9	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	4.4	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	90		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	79		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	87		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	73		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time

05/17/23 13:55
 05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08020

Project ID: BRAINARD AIRPORT
 Client ID: B-116 (1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	19.4	0.39	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	79		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	79		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	79		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.54	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	88		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	85		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	71		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

8:40
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08021

Project ID: BRAINARD AIRPORT
 Client ID: B-117(0.25-2.25)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	24.6	0.43	mg/Kg	1	05/19/23	CPP	SW6010D
Percent Solid	78		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	S/B/F	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	77		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	77		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.67	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	33	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	33	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	330	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	4.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	40	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	6.7	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(a)pyrene	300	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(b)fluoranthene	300	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/27/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	79		%	1	05/27/23	RM	30 - 130 %
% Nitrobenzene-d5	85		%	1	05/27/23	RM	30 - 130 %
% Terphenyl-d14	75		%	1	05/27/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 05/17/23 8:45
 05/17/23 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08022

Project ID: BRAINARD AIRPORT
 Client ID: B-117(8-10)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.25	0.42	mg/Kg	1	05/19/23	CPP	SW6010D
Percent Solid	77		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	B/M	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	74		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	72		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.63	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	87		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Chrysene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	68		%	1	05/27/23	KCA	30 - 130 %
% Nitrobenzene-d5	66		%	1	05/27/23	KCA	30 - 130 %
% Terphenyl-d14	69		%	1	05/27/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

13:40
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08023

Project ID: BRAINARD AIRPORT
 Client ID: B-133(1-3)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	B/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	75		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	76		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.47	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	24	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	240	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.4	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	9.4	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.4	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C

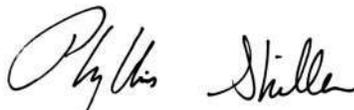
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.4	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.4	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	4.7	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	102		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Chrysene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Fluoranthene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
Pyrene	ND	270	ug/Kg	1	05/27/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	60		%	1	05/27/23	KCA	30 - 130 %
% Nitrobenzene-d5	56		%	1	05/27/23	KCA	30 - 130 %
% Terphenyl-d14	61		%	1	05/27/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

05/17/23
 05/17/23

Time

13:41
 16:52

Laboratory Data

SDG ID: GCO08002
 Phoenix ID: CO08024

Project ID: BRAINARD AIRPORT
 Client ID: DUP-9

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/17/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	B/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	72		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.48	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	24	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	240	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	2.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.5	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	9.5	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.5	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.5	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.5	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	101		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/23/23	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Anthracene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Chrysene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Fluoranthene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Fluorene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D
Pyrene	ND	280	ug/Kg	1	05/27/23	KCA	SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	66		%	1	05/27/23	KCA	30 - 130 %
% Nitrobenzene-d5	63		%	1	05/27/23	KCA	30 - 130 %
% Terphenyl-d14	68		%	1	05/27/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/17/23
05/17/23

Time

16:52

Laboratory Data

SDG ID: GCO08002
Phoenix ID: CO08025

Project ID: BRAINARD AIRPORT
Client ID: TB051723L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				05/17/23		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	05/23/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Casey Watts
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

05/17/23
05/17/23

Time

16:52

Laboratory Data

SDG ID: GCO08002
Phoenix ID: CO08026

Project ID: BRAINARD AIRPORT
Client ID: TB051723H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction	Completed				05/17/23		SW5035A
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Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/23/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/23/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/23/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/23/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/23/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/23/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	05/23/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	98		%	50	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	93		%	50	05/23/23	JLI	70 - 130 %
% Toluene-d8 (50x)	100		%	50	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 28, 2023

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 679634 (mg/kg), QC Sample No: CO07576 2X (CO08010, CO08011, CO08013, CO08014, CO08015, CO08016)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	116	112	3.5	104	99.9	4.0	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 683383 (mg/L), QC Sample No: CO00632 (CO08010, CO08011, CO08015, CO08016)

ICP Metals - SPLP Extraction

Barium	BRL	0.010	<0.010	<0.010	NC	100	102	2.0	101			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	104	106	1.9	105			80 - 120	20
Chromium	BRL	0.010	<0.010	<0.010	NC	101	102	1.0	101			80 - 120	20
Nickel	BRL	0.010	<0.010	<0.010	NC	101	102	1.0	101			80 - 120	20
Vanadium	BRL	0.010	<0.010	<0.010	NC	101	102	1.0	101			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 678477 (mg/kg), QC Sample No: CO07579 (CO08002, CO08003, CO08004, CO08005, CO08006, CO08009, CO08010, CO08011, CO08013, CO08014, CO08015, CO08016, CO08017, CO08019, CO08020)

ICP Metals - Soil

Antimony	BRL	3.3	<3.5	<3.9	NC	100	101	1.0	90.5			75 - 125	35
Arsenic	BRL	0.67	5.32	5.38	1.10	110	109	0.9	92.1			75 - 125	35
Barium	BRL	0.33	26.3	29.1	10.1	113	115	1.8	110			75 - 125	35
Beryllium	BRL	0.27	0.43	0.43	NC	112	111	0.9	96.9			75 - 125	35
Cadmium	BRL	0.33	<0.35	<0.39	NC	111	112	0.9	94.8			75 - 125	35
Chromium	BRL	0.33	13.3	14.9	11.3	112	112	0.0	98.6			75 - 125	35
Copper	BRL	0.67	7.0	8.47	19.0	112	111	0.9	99.9			75 - 125	35
Lead	BRL	0.33	11.7	13.1	11.3	101	100	1.0	95.7			75 - 125	35
Nickel	BRL	0.33	7.14	8.18	13.6	115	114	0.9	99.0			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.6	NC	108	108	0.0	92.1			75 - 125	35
Silver	BRL	0.33	<0.35	<0.39	NC	108	108	0.0	97.2			75 - 125	35
Thallium	BRL	3.0	<3.1	<3.6	NC	110	108	1.8	94.6			75 - 125	35
Vanadium	BRL	0.33	21.5	21.4	0.50	112	113	0.9	99.8			75 - 125	35
Zinc	BRL	0.67	28.4	31.2	9.40	114	113	0.9	100			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 678478 (mg/kg), QC Sample No: CO08022 (CO08021, CO08022)

ICP Metals - Soil

Lead	BRL	0.33	5.25	5.30	0.90	101	106	4.8	101			75 - 125	35
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.
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QA/QC Report

June 28, 2023

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 679764 (mg/Kg), QC Sample No: CO08006 (CO08002, CO08003, CO08004, CO08005, CO08006, CO08007, CO08008, CO08009, CO08010, CO08011, CO08013, CO08014, CO08015)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	91	111	19.8	138	84	48.6	60 - 120	30	r
% COD (surr)	62	%	86	92	6.7	118	84	33.7	50 - 150	30	r
% Terphenyl (surr)	61	%	74	85	13.8	107	67	46.0	50 - 150	30	r

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 679785 (mg/Kg), QC Sample No: CO08024 (CO08016, CO08017, CO08018, CO08019, CO08020, CO08021, CO08022, CO08023, CO08024)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	106	109	2.8	91	100	9.4	60 - 120	30	
% COD (surr)	88	%	104	115	10.0	91	104	13.3	50 - 150	30	
% Terphenyl (surr)	91	%	96	93	3.2	87	89	2.3	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 679940 (mg/Kg), QC Sample No: CO09923 (CO08012)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	96	88	8.7	96	99	3.1	60 - 120	30	
% COD (surr)	76	%	87	73	17.5	89	101	12.6	50 - 150	30	
% Terphenyl (surr)	74	%	81	70	14.6	75	84	11.3	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 679726 (ug/Kg), QC Sample No: CO10161 2X (CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08018)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	96	96	0.0	76	77	1.3	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	102	105	2.9	77	76	1.3	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	78	%	104	102	1.9	80	80	0.0	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm)	83	%	107	112	4.6	84	76	10.0	30 - 150	30	
% TCMX (Surrogate Rec)	73	%	92	88	4.4	81	77	5.1	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm)	70	%	88	85	3.5	80	75	6.5	30 - 150	30	

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 679750 (ug/kg), QC Sample No: CO07579 (CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08018)											
Semivolatiles - Soil											
1,2,4,5-Tetrachlorobenzene	ND	230	59	60	1.7	47	46	2.2	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	58	62	6.7	49	48	2.1	40 - 140	30	
1,2-Dichlorobenzene	ND	180	50	56	11.3	44	43	2.3	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	71	71	0.0	63	61	3.2	40 - 140	30	
1,3-Dichlorobenzene	ND	230	49	55	11.5	42	40	4.9	40 - 140	30	
1,4-Dichlorobenzene	ND	230	49	54	9.7	42	41	2.4	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	55	59	7.0	50	49	2.0	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	82	83	1.2	73	70	4.2	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	85	87	2.3	76	72	5.4	30 - 130	30	
2,4-Dichlorophenol	ND	130	71	74	4.1	62	60	3.3	30 - 130	30	
2,4-Dimethylphenol	ND	230	74	77	4.0	65	62	4.7	30 - 130	30	
2,4-Dinitrophenol	ND	230	78	77	1.3	63	58	8.3	30 - 130	30	
2,4-Dinitrotoluene	ND	130	84	85	1.2	74	71	4.1	30 - 130	30	
2,6-Dinitrotoluene	ND	130	80	79	1.3	70	66	5.9	40 - 140	30	
2-Chloronaphthalene	ND	230	73	77	5.3	62	58	6.7	40 - 140	30	
2-Chlorophenol	ND	230	61	65	6.3	55	53	3.7	30 - 130	30	
2-Methylnaphthalene	ND	230	63	65	3.1	54	52	3.8	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	62	65	4.7	54	53	1.9	40 - 140	30	
2-Nitroaniline	ND	330	80	78	2.5	73	61	17.9	40 - 140	30	
2-Nitrophenol	ND	230	68	72	5.7	60	58	3.4	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	65	68	4.5	58	56	3.5	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
3-Nitroaniline	ND	330	39	29	29.4	62	57	8.4	40 - 140	30	l
4,6-Dinitro-2-methylphenol	ND	230	81	79	2.5	68	61	10.9	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	77	78	1.3	67	65	3.0	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	75	77	2.6	67	66	1.5	30 - 130	30	
4-Chloroaniline	ND	230	26	25	3.9	40	35	13.3	40 - 140	30	l,m
4-Chlorophenyl phenyl ether	ND	230	77	79	2.6	68	64	6.1	40 - 140	30	
4-Nitroaniline	ND	230	83	85	2.4	75	72	4.1	40 - 140	30	
4-Nitrophenol	ND	230	95	96	1.0	83	80	3.7	30 - 130	30	
Acenaphthene	ND	230	75	77	2.6	64	61	4.8	30 - 130	30	
Acenaphthylene	ND	130	72	74	2.7	61	58	5.0	40 - 140	30	
Acetophenone	ND	230	55	58	5.3	48	47	2.1	40 - 140	30	
Aniline	ND	330	64	73	13.1	20	17	16.2	40 - 140	30	m
Anthracene	ND	230	80	79	1.3	71	68	4.3	40 - 140	30	
Benz(a)anthracene	ND	230	76	73	4.0	69	66	4.4	40 - 140	30	
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	92	93	1.1	83	78	6.2	40 - 140	30	
Benzo(b)fluoranthene	ND	160	86	92	6.7	80	76	5.1	40 - 140	30	
Benzo(ghi)perylene	ND	230	90	94	4.3	53	58	9.0	40 - 140	30	
Benzo(k)fluoranthene	ND	230	84	90	6.9	78	76	2.6	40 - 140	30	
Benzoic Acid	ND	670	100	106	5.8	92	91	1.1	30 - 130	30	
Benzyl butyl phthalate	ND	230	86	82	4.8	77	73	5.3	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	64	66	3.1	54	54	0.0	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	55	61	10.3	48	48	0.0	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	86	83	3.6	79	74	6.5	40 - 140	30	
Carbazole	ND	230	79	77	2.6	73	67	8.6	40 - 140	30	
Chrysene	ND	230	85	83	2.4	78	73	6.6	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	93	99	6.3	57	61	6.8	40 - 140	30	

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Dibenzofuran	ND	230	73	75	2.7	64	60	6.5	40 - 140	30	
Diethyl phthalate	ND	230	76	76	0.0	67	65	3.0	40 - 140	30	
Dimethylphthalate	ND	230	76	76	0.0	66	64	3.1	40 - 140	30	
Di-n-butylphthalate	ND	670	81	80	1.2	72	68	5.7	40 - 140	30	
Di-n-octylphthalate	ND	230	82	79	3.7	74	69	7.0	40 - 140	30	
Fluoranthene	ND	230	82	80	2.5	75	70	6.9	40 - 140	30	
Fluorene	ND	230	81	82	1.2	71	67	5.8	40 - 140	30	
Hexachlorobenzene	ND	130	82	81	1.2	70	67	4.4	40 - 140	30	
Hexachlorobutadiene	ND	230	57	61	6.8	49	47	4.2	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	57	59	3.4	25	16	43.9	40 - 140	30	m,r
Hexachloroethane	ND	130	49	54	9.7	40	38	5.1	40 - 140	30	m
Indeno(1,2,3-cd)pyrene	ND	230	93	99	6.3	55	59	7.0	40 - 140	30	
Isophorone	ND	130	58	60	3.4	50	49	2.0	40 - 140	30	
Naphthalene	ND	230	61	65	6.3	52	51	1.9	40 - 140	30	
Nitrobenzene	ND	130	57	61	6.8	50	49	2.0	40 - 140	30	
N-Nitrosodimethylamine	ND	230	42	46	9.1	38	38	0.0	40 - 140	30	m
N-Nitrosodi-n-propylamine	ND	130	59	61	3.3	51	50	2.0	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	60	60	0.0	66	64	3.1	40 - 140	30	
Pentachloronitrobenzene	ND	230	72	71	1.4	65	62	4.7	40 - 140	30	
Pentachlorophenol	ND	230	89	90	1.1	80	80	0.0	30 - 130	30	
Phenanthrene	ND	130	80	78	2.5	73	68	7.1	40 - 140	30	
Phenol	ND	230	61	63	3.2	53	52	1.9	30 - 130	30	
Pyrene	ND	230	82	80	2.5	74	70	5.6	30 - 130	30	
Pyridine	ND	230	10	18	57.1	24	24	0.0	40 - 140	30	l,m,r
% 2,4,6-Tribromophenol	61	%	78	77	1.3	74	71	4.1	30 - 130	30	
% 2-Fluorobiphenyl	58	%	69	72	4.3	60	56	6.9	30 - 130	30	
% 2-Fluorophenol	48	%	55	60	8.7	51	50	2.0	30 - 130	30	
% Nitrobenzene-d5	50	%	56	59	5.2	50	49	2.0	30 - 130	30	
% Phenol-d5	52	%	61	64	4.8	55	53	3.7	30 - 130	30	
% Terphenyl-d14	62	%	71	71	0.0	66	60	9.5	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 679752 (ug/kg), QC Sample No: CO08511 (CO08022, CO08023, CO08024)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	57	62	8.4	57	60	5.1	40 - 140	30	
Acenaphthene	ND	230	61	65	6.3	59	65	9.7	30 - 130	30	
Acenaphthylene	ND	230	59	63	6.6	58	64	9.8	40 - 140	30	
Anthracene	ND	230	63	65	3.1	59	67	12.7	40 - 140	30	
Benz(a)anthracene	ND	230	63	67	6.2	60	67	11.0	40 - 140	30	
Benzo(a)pyrene	ND	230	75	79	5.2	72	81	11.8	40 - 140	30	
Benzo(b)fluoranthene	ND	230	66	71	7.3	64	70	9.0	40 - 140	30	
Benzo(ghi)perylene	ND	230	72	76	5.4	67	78	15.2	40 - 140	30	
Benzo(k)fluoranthene	ND	230	61	65	6.3	58	66	12.9	40 - 140	30	
Chrysene	ND	230	63	67	6.2	61	68	10.9	40 - 140	30	
Dibenz(a,h)anthracene	ND	230	74	77	4.0	69	79	13.5	40 - 140	30	
Fluoranthene	ND	230	65	69	6.0	63	70	10.5	40 - 140	30	
Fluorene	ND	230	66	71	7.3	63	71	11.9	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	76	80	5.1	71	82	14.4	40 - 140	30	
Naphthalene	ND	230	55	62	12.0	56	56	0.0	40 - 140	30	
Phenanthrene	ND	230	60	64	6.5	58	67	14.4	40 - 140	30	
Pyrene	ND	230	65	71	8.8	63	71	11.9	30 - 130	30	

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% 2-Fluorobiphenyl	63	%	57	61	6.8	56	61	8.5	30 - 130	30
% Nitrobenzene-d5	59	%	48	56	15.4	50	49	2.0	30 - 130	30
% Terphenyl-d14	68	%	61	65	6.3	59	66	11.2	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 679725 (ug/kg), QC Sample No: CO14809 (CO08002, CO08003, CO08004, CO08005, CO08006, CO08009, CO08017, CO08019, CO08020, CO08021)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	59	49	18.5	61	50	19.8	40 - 140	30
Acenaphthene	ND	230	75	61	20.6	81	67	18.9	30 - 130	30
Acenaphthylene	ND	230	65	55	16.7	70	59	17.1	40 - 140	30
Anthracene	ND	230	70	60	15.4	77	68	12.4	40 - 140	30
Benz(a)anthracene	ND	230	76	62	20.3	83	72	14.2	40 - 140	30
Benzo(a)pyrene	ND	230	80	69	14.8	87	78	10.9	40 - 140	30
Benzo(b)fluoranthene	ND	230	73	61	17.9	78	69	12.2	40 - 140	30
Benzo(ghi)perylene	ND	230	76	64	17.1	82	73	11.6	40 - 140	30
Benzo(k)fluoranthene	ND	230	74	61	19.3	80	71	11.9	40 - 140	30
Chrysene	ND	230	79	65	19.4	86	76	12.3	40 - 140	30
Dibenz(a,h)anthracene	ND	230	74	63	16.1	81	73	10.4	40 - 140	30
Fluoranthene	ND	230	67	57	16.1	72	64	11.8	40 - 140	30
Fluorene	ND	230	72	61	16.5	79	68	15.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	73	65	11.6	82	73	11.6	40 - 140	30
Naphthalene	ND	230	58	45	25.2	64	52	20.7	40 - 140	30
Phenanthrene	ND	230	70	59	17.1	77	67	13.9	40 - 140	30
Pyrene	ND	230	73	61	17.9	79	70	12.1	30 - 130	30
% 2-Fluorobiphenyl	65	%	60	50	18.2	63	53	17.2	30 - 130	30
% Nitrobenzene-d5	71	%	61	47	25.9	67	56	17.9	30 - 130	30
% Terphenyl-d14	63	%	66	55	18.2	72	63	13.3	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 679109 (ug/kg), QC Sample No: CO08006 (CO08002, CO08003, CO08004, CO08005, CO08006, CO08007, CO08008, CO08009)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	118	124	5.0	118	117	0.9	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	114	118	3.4	108	107	0.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	103	111	7.5	105	103	1.9	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	105	109	3.7	105	104	1.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	114	118	3.4	108	110	1.8	70 - 130	30
1,1-Dichloroethene	ND	5.0	118	117	0.9	108	110	1.8	70 - 130	30
1,1-Dichloropropene	ND	5.0	114	118	3.4	112	114	1.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	108	114	5.4	99	101	2.0	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	106	113	6.4	101	101	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	109	113	3.6	100	100	0.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	110	114	3.6	107	109	1.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	106	118	10.7	104	102	1.9	70 - 130	30
1,2-Dibromoethane	ND	5.0	108	114	5.4	108	106	1.9	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	104	110	5.6	103	103	0.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	99	104	4.9	100	97	3.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	105	110	4.7	107	105	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	113	117	3.5	111	112	0.9	70 - 130	30

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
1,3-Dichlorobenzene	ND	5.0	106	111	4.6	104	104	0.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	108	112	3.6	108	106	1.9	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	105	109	3.7	103	103	0.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	121	126	4.0	103	107	3.8	70 - 130	30
2-Chlorotoluene	ND	5.0	113	115	1.8	110	111	0.9	70 - 130	30
2-Hexanone	ND	25	103	109	5.7	103	98	5.0	70 - 130	30
2-Isopropyltoluene	ND	5.0	111	116	4.4	109	110	0.9	70 - 130	30
4-Chlorotoluene	ND	5.0	112	116	3.5	109	109	0.0	70 - 130	30
4-Methyl-2-pentanone	ND	25	102	111	8.5	102	99	3.0	70 - 130	30
Acetone	ND	10	94	100	6.2	111	101	9.4	70 - 130	30
Acrylonitrile	ND	5.0	106	112	5.5	101	98	3.0	70 - 130	30
Benzene	ND	1.0	110	114	3.6	109	110	0.9	70 - 130	30
Bromobenzene	ND	5.0	107	112	4.6	107	107	0.0	70 - 130	30
Bromochloromethane	ND	5.0	106	113	6.4	104	107	2.8	70 - 130	30
Bromodichloromethane	ND	5.0	107	110	2.8	107	108	0.9	70 - 130	30
Bromoform	ND	5.0	109	117	7.1	111	110	0.9	70 - 130	30
Bromomethane	ND	5.0	109	115	5.4	96	100	4.1	70 - 130	30
Carbon Disulfide	ND	5.0	107	109	1.9	98	102	4.0	70 - 130	30
Carbon tetrachloride	ND	5.0	121	123	1.6	114	115	0.9	70 - 130	30
Chlorobenzene	ND	5.0	108	111	2.7	107	106	0.9	70 - 130	30
Chloroethane	ND	5.0	114	115	0.9	107	113	5.5	70 - 130	30
Chloroform	ND	5.0	110	109	0.9	103	104	1.0	70 - 130	30
Chloromethane	ND	5.0	109	114	4.5	102	105	2.9	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	114	118	3.4	96	112	15.4	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	116	121	4.2	113	112	0.9	70 - 130	30
Dibromochloromethane	ND	3.0	111	117	5.3	115	113	1.8	70 - 130	30
Dibromomethane	ND	5.0	103	107	3.8	103	101	2.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	106	107	0.9	92	94	2.2	70 - 130	30
Ethylbenzene	ND	1.0	108	111	2.7	107	106	0.9	70 - 130	30
Hexachlorobutadiene	ND	5.0	109	109	0.0	102	103	1.0	70 - 130	30
Isopropylbenzene	ND	1.0	115	121	5.1	114	116	1.7	70 - 130	30
m&p-Xylene	ND	2.0	112	114	1.8	110	110	0.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	97	107	9.8	91	88	3.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	103	107	3.8	114	111	2.7	70 - 130	30
Methylene chloride	ND	5.0	103	107	3.8	165	155	6.3	70 - 130	30 m
Naphthalene	ND	5.0	114	124	8.4	107	107	0.0	70 - 130	30
n-Butylbenzene	ND	1.0	117	120	2.5	112	114	1.8	70 - 130	30
n-Propylbenzene	ND	1.0	111	116	4.4	109	111	1.8	70 - 130	30
o-Xylene	ND	2.0	110	115	4.4	111	109	1.8	70 - 130	30
p-Isopropyltoluene	ND	1.0	116	120	3.4	112	114	1.8	70 - 130	30
sec-Butylbenzene	ND	1.0	115	120	4.3	113	114	0.9	70 - 130	30
Styrene	ND	5.0	100	103	3.0	98	98	0.0	70 - 130	30
tert-Butylbenzene	ND	1.0	114	120	5.1	113	113	0.0	70 - 130	30
Tetrachloroethene	ND	5.0	108	109	0.9	106	106	0.0	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	102	111	8.5	98	95	3.1	70 - 130	30
Toluene	ND	1.0	108	111	2.7	107	108	0.9	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	112	119	6.1	109	110	0.9	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	119	125	4.9	111	113	1.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	131	143	8.8	123	122	0.8	70 - 130	30 l
Trichloroethene	ND	5.0	107	110	2.8	105	105	0.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	114	115	0.9	104	106	1.9	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	105	100	4.9	97	97	0.0	70 - 130	30
Vinyl chloride	ND	5.0	118	121	2.5	109	113	3.6	70 - 130	30

QA/QC Data

SDG I.D.: GCO08002

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	96	%	99	99	0.0	98	98	0.0	70 - 130	30
% Dibromofluoromethane	98	%	99	102	3.0	97	99	2.0	70 - 130	30
% Toluene-d8	100	%	101	100	1.0	102	102	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 679277 (ug/kg), QC Sample No: CO08021 (CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08017, CO08018, CO08019, CO08020, CO08021, CO08022, CO08025)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	108	108	0.0	103	97	6.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	110	109	0.9	107	102	4.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	98	98	0.0	89	82	8.2	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	102	102	0.0	95	90	5.4	70 - 130	30	
1,1-Dichloroethane	ND	5.0	107	106	0.9	106	101	4.8	70 - 130	30	
1,1-Dichloroethene	ND	5.0	108	105	2.8	109	103	5.7	70 - 130	30	
1,1-Dichloropropene	ND	5.0	109	109	0.0	110	104	5.6	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	99	102	3.0	69	47	37.9	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	5.0	99	99	0.0	89	85	4.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	96	98	2.1	70	49	35.3	70 - 130	30	m,r
1,2,4-Trimethylbenzene	ND	1.0	100	102	2.0	97	85	13.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	109	110	0.9	81	77	5.1	70 - 130	30	
1,2-Dibromoethane	ND	5.0	104	105	1.0	94	88	6.6	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	99	100	1.0	87	73	17.5	70 - 130	30	
1,2-Dichloroethane	ND	5.0	104	104	0.0	104	98	5.9	70 - 130	30	
1,2-Dichloropropane	ND	5.0	102	102	0.0	100	96	4.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	102	104	1.9	100	89	11.6	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	98	100	2.0	90	74	19.5	70 - 130	30	
1,3-Dichloropropane	ND	5.0	105	105	0.0	97	92	5.3	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	97	99	2.0	88	72	20.0	70 - 130	30	
1,4-dioxane	ND	100	127	112	12.6	115	116	0.9	70 - 130	30	
2,2-Dichloropropane	ND	5.0	105	103	1.9	98	94	4.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	104	106	1.9	99	87	12.9	70 - 130	30	
2-Hexanone	ND	25	91	93	2.2	78	75	3.9	70 - 130	30	
2-Isopropyltoluene	ND	5.0	103	103	0.0	101	89	12.6	70 - 130	30	
4-Chlorotoluene	ND	5.0	103	103	0.0	97	83	15.6	70 - 130	30	
4-Methyl-2-pentanone	ND	25	99	100	1.0	88	86	2.3	70 - 130	30	
Acetone	ND	10	96	93	3.2	118	121	2.5	70 - 130	30	
Acrylonitrile	ND	5.0	83	83	0.0	73	73	0.0	70 - 130	30	
Benzene	ND	1.0	105	105	0.0	102	98	4.0	70 - 130	30	
Bromobenzene	ND	5.0	103	104	1.0	94	83	12.4	70 - 130	30	
Bromochloromethane	ND	5.0	106	105	0.9	95	90	5.4	70 - 130	30	
Bromodichloromethane	ND	5.0	103	103	0.0	100	96	4.1	70 - 130	30	
Bromoform	ND	5.0	108	108	0.0	90	85	5.7	70 - 130	30	
Bromomethane	ND	5.0	115	112	2.6	119	116	2.6	70 - 130	30	
Carbon Disulfide	ND	5.0	102	101	1.0	99	93	6.3	70 - 130	30	
Carbon tetrachloride	ND	5.0	108	106	1.9	100	95	5.1	70 - 130	30	
Chlorobenzene	ND	5.0	103	104	1.0	100	91	9.4	70 - 130	30	
Chloroethane	ND	5.0	112	111	0.9	122	113	7.7	70 - 130	30	
Chloroform	ND	5.0	104	102	1.9	99	93	6.3	70 - 130	30	
Chloromethane	ND	5.0	104	101	2.9	97	91	6.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	102	98	4.0	98	91	7.4	70 - 130	30	

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
cis-1,3-Dichloropropene	ND	5.0	102	102	0.0	95	89	6.5	70 - 130	30	
Dibromochloromethane	ND	3.0	106	105	0.9	93	88	5.5	70 - 130	30	
Dibromomethane	ND	5.0	105	105	0.0	98	93	5.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	107	107	0.0	116	110	5.3	70 - 130	30	
Ethylbenzene	ND	1.0	106	107	0.9	106	98	7.8	70 - 130	30	
Hexachlorobutadiene	ND	5.0	103	103	0.0	85	68	22.2	70 - 130	30	m
Isopropylbenzene	ND	1.0	107	107	0.0	105	95	10.0	70 - 130	30	
m&p-Xylene	ND	2.0	104	106	1.9	106	96	9.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	97	97	0.0	84	77	8.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	104	104	0.0	119	119	0.0	70 - 130	30	
Methylene chloride	ND	5.0	98	97	1.0	140	147	4.9	70 - 130	30	m
Naphthalene	ND	5.0	102	104	1.9	71	54	27.2	70 - 130	30	m
n-Butylbenzene	ND	1.0	102	103	1.0	97	82	16.8	70 - 130	30	
n-Propylbenzene	ND	1.0	105	105	0.0	103	90	13.5	70 - 130	30	
o-Xylene	ND	2.0	102	105	2.9	102	93	9.2	70 - 130	30	
p-Isopropyltoluene	ND	1.0	104	105	1.0	102	89	13.6	70 - 130	30	
sec-Butylbenzene	ND	1.0	106	107	0.9	105	92	13.2	70 - 130	30	
Styrene	ND	5.0	99	101	2.0	96	85	12.2	70 - 130	30	
tert-Butylbenzene	ND	1.0	107	108	0.9	105	95	10.0	70 - 130	30	
Tetrachloroethene	ND	5.0	106	107	0.9	109	101	7.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	92	92	0.0	78	72	8.0	70 - 130	30	
Toluene	ND	1.0	104	106	1.9	104	98	5.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	106	106	0.0	105	100	4.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	103	103	0.0	91	84	8.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	100	100	0.0	78	69	12.2	70 - 130	30	m
Trichloroethene	ND	5.0	108	109	0.9	104	99	4.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	117	118	0.9	127	121	4.8	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	106	106	0.0	113	108	4.5	70 - 130	30	
Vinyl chloride	ND	5.0	111	108	2.7	106	102	3.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0	98	98	0.0	70 - 130	30	
% Bromofluorobenzene	99	%	99	101	2.0	101	100	1.0	70 - 130	30	
% Dibromofluoromethane	99	%	102	102	0.0	92	93	1.1	70 - 130	30	
% Toluene-d8	100	%	100	101	1.0	100	100	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 679277H (ug/kg), QC Sample No: CO08021 50X (CO08026 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	120	121	0.8	115	116	0.9	70 - 130	30	
1,1,1-Trichloroethane	ND	250	116	119	2.6	111	111	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	113	117	3.5	108	108	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	250	115	116	0.9	112	110	1.8	70 - 130	30	
1,1-Dichloroethane	ND	250	113	115	1.8	113	112	0.9	70 - 130	30	
1,1-Dichloroethene	ND	250	99	99	0.0	110	109	0.9	70 - 130	30	
1,1-Dichloropropene	ND	250	119	122	2.5	121	120	0.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	120	122	1.7	112	119	6.1	70 - 130	30	
1,2,3-Trichloropropane	ND	250	114	118	3.4	110	111	0.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	122	125	2.4	115	122	5.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	116	118	1.7	115	118	2.6	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	118	120	1.7	100	104	3.9	70 - 130	30	
1,2-Dibromoethane	ND	250	116	120	3.4	113	113	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	250	117	118	0.9	116	118	1.7	70 - 130	30	

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
1,2-Dichloroethane	ND	250	116	118	1.7	120	120	0.0	70 - 130	30	
1,2-Dichloropropane	ND	250	114	116	1.7	111	112	0.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	118	120	1.7	116	119	2.6	70 - 130	30	
1,3-Dichlorobenzene	ND	250	118	120	1.7	118	120	1.7	70 - 130	30	
1,3-Dichloropropane	ND	250	117	120	2.5	115	114	0.9	70 - 130	30	
1,4-Dichlorobenzene	ND	250	118	120	1.7	117	119	1.7	70 - 130	30	
2,2-Dichloropropane	ND	250	109	112	2.7	102	103	1.0	70 - 130	30	
2-Chlorotoluene	ND	250	120	122	1.7	117	120	2.5	70 - 130	30	
2-Hexanone	ND	1300	104	108	3.8	97	96	1.0	70 - 130	30	
2-Isopropyltoluene	ND	250	118	119	0.8	117	119	1.7	70 - 130	30	
4-Chlorotoluene	ND	250	120	122	1.7	120	123	2.5	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	110	113	2.7	106	104	1.9	70 - 130	30	
Acetone	ND	500	86	89	3.4	84	81	3.6	70 - 130	30	
Acrylonitrile	ND	250	88	82	7.1	91	90	1.1	70 - 130	30	
Benzene	ND	250	115	116	0.9	113	113	0.0	70 - 130	30	
Bromobenzene	ND	250	120	121	0.8	116	118	1.7	70 - 130	30	
Bromochloromethane	ND	250	114	119	4.3	107	108	0.9	70 - 130	30	
Bromodichloromethane	ND	250	115	115	0.0	110	112	1.8	70 - 130	30	
Bromoform	ND	250	119	120	0.8	106	108	1.9	70 - 130	30	
Bromomethane	ND	250	74	76	2.7	80	80	0.0	70 - 130	30	
Carbon Disulfide	ND	250	95	96	1.0	103	103	0.0	70 - 130	30	
Carbon tetrachloride	ND	250	113	117	3.5	101	102	1.0	70 - 130	30	
Chlorobenzene	ND	250	117	119	1.7	118	118	0.0	70 - 130	30	
Chloroethane	ND	250	25	25	0.0	26	25	3.9	70 - 130	30	l,m
Chloroform	ND	250	109	112	2.7	105	105	0.0	70 - 130	30	
Chloromethane	ND	250	113	113	0.0	102	101	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	107	114	6.3	102	103	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	114	117	2.6	108	109	0.9	70 - 130	30	
Dibromochloromethane	ND	150	115	117	1.7	105	106	0.9	70 - 130	30	
Dibromomethane	ND	250	117	118	0.9	115	114	0.9	70 - 130	30	
Dichlorodifluoromethane	ND	250	125	125	0.0	120	120	0.0	70 - 130	30	
Ethylbenzene	ND	250	119	122	2.5	120	121	0.8	70 - 130	30	
Hexachlorobutadiene	ND	250	124	126	1.6	123	127	3.2	70 - 130	30	
Isopropylbenzene	ND	250	119	121	1.7	117	120	2.5	70 - 130	30	
m&p-Xylene	ND	250	119	120	0.8	122	122	0.0	70 - 130	30	
Methyl ethyl ketone	ND	250	106	110	3.7	100	91	9.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	112	115	2.6	110	110	0.0	70 - 130	30	
Methylene chloride	ND	250	105	108	2.8	107	106	0.9	70 - 130	30	
Naphthalene	ND	250	117	120	2.5	107	112	4.6	70 - 130	30	
n-Butylbenzene	ND	250	123	125	1.6	123	126	2.4	70 - 130	30	
n-Propylbenzene	ND	250	120	123	2.5	117	121	3.4	70 - 130	30	
o-Xylene	ND	250	116	119	2.6	117	118	0.9	70 - 130	30	
p-Isopropyltoluene	ND	250	122	124	1.6	121	125	3.3	70 - 130	30	
sec-Butylbenzene	ND	250	121	123	1.6	121	123	1.6	70 - 130	30	
Styrene	ND	250	116	116	0.0	118	119	0.8	70 - 130	30	
tert-Butylbenzene	ND	250	120	122	1.7	119	120	0.8	70 - 130	30	
Tetrachloroethene	ND	250	122	124	1.6	125	123	1.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	98	104	5.9	90	88	2.2	70 - 130	30	
Toluene	ND	250	117	119	1.7	118	118	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	113	116	2.6	115	115	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	115	116	0.9	108	109	0.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	112	116	3.5	98	100	2.0	70 - 130	30	
Trichloroethene	ND	250	118	120	1.7	117	118	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	BLK RL									
Trichlorofluoromethane	ND	250	20	20	0.0	21	20	4.9	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	103	105	1.9	116	116	0.0	70 - 130	30	
Vinyl chloride	ND	250	112	114	1.8	104	104	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	100	100	0.0	98	98	0.0	70 - 130	30	
% Bromofluorobenzene	99	%	100	100	0.0	101	100	1.0	70 - 130	30	
% Dibromofluoromethane	95	%	97	100	3.0	89	89	0.0	70 - 130	30	
% Toluene-d8	101	%	102	101	1.0	100	100	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 679162 (ug/kg), QC Sample No: CO11018 (CO08023, CO08024)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	116	123	5.9	114	112	1.8	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	107	114	6.3	109	108	0.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	100	103	3.0	106	103	2.9	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	102	107	4.8	107	104	2.8	70 - 130	30
1,1-Dichloroethane	ND	5.0	109	113	3.6	110	109	0.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	109	116	6.2	115	111	3.5	70 - 130	30
1,1-Dichloropropene	ND	5.0	114	115	0.9	117	113	3.5	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	102	103	1.0	102	90	12.5	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	101	105	3.9	108	104	3.8	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	100	98	2.0	98	87	11.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	106	106	0.0	109	100	8.6	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	104	110	5.6	104	99	4.9	70 - 130	30
1,2-Dibromoethane	ND	5.0	107	110	2.8	106	105	0.9	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	102	102	0.0	102	95	7.1	70 - 130	30
1,2-Dichloroethane	ND	5.0	97	100	3.0	99	98	1.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	105	108	2.8	108	105	2.8	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	110	109	0.9	112	104	7.4	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	102	101	1.0	103	94	9.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	106	109	2.8	108	104	3.8	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	101	101	0.0	101	92	9.3	70 - 130	30
2,2-Dichloropropane	ND	5.0	112	117	4.4	110	112	1.8	70 - 130	30
2-Chlorotoluene	ND	5.0	110	109	0.9	110	104	5.6	70 - 130	30
2-Hexanone	ND	25	100	104	3.9	105	97	7.9	70 - 130	30
2-Isopropyltoluene	ND	5.0	110	108	1.8	111	102	8.5	70 - 130	30
4-Chlorotoluene	ND	5.0	107	107	0.0	109	101	7.6	70 - 130	30
4-Methyl-2-pentanone	ND	25	102	107	4.8	105	101	3.9	70 - 130	30
Acetone	ND	10	84	92	9.1	84	83	1.2	70 - 130	30
Acrylonitrile	ND	5.0	102	109	6.6	101	100	1.0	70 - 130	30
Benzene	ND	1.0	109	112	2.7	112	109	2.7	70 - 130	30
Bromobenzene	ND	5.0	105	106	0.9	106	100	5.8	70 - 130	30
Bromochloromethane	ND	5.0	102	109	6.6	105	102	2.9	70 - 130	30
Bromodichloromethane	ND	5.0	106	110	3.7	105	104	1.0	70 - 130	30
Bromoform	ND	5.0	110	115	4.4	105	103	1.9	70 - 130	30
Bromomethane	ND	5.0	102	107	4.8	110	105	4.7	70 - 130	30
Carbon Disulfide	ND	5.0	104	106	1.9	105	103	1.9	70 - 130	30
Carbon tetrachloride	ND	5.0	116	121	4.2	115	112	2.6	70 - 130	30
Chlorobenzene	ND	5.0	104	108	3.8	107	100	6.8	70 - 130	30
Chloroethane	ND	5.0	109	113	3.6	110	108	1.8	70 - 130	30
Chloroform	ND	5.0	102	107	4.8	107	104	2.8	70 - 130	30
Chloromethane	ND	5.0	105	109	3.7	108	102	5.7	70 - 130	30

QA/QC Data

SDG I.D.: GCO08002

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
cis-1,2-Dichloroethene	ND	5.0	111	111	0.0	114	93	20.3	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	114	117	2.6	113	109	3.6	70 - 130	30
Dibromochloromethane	ND	3.0	112	114	1.8	108	106	1.9	70 - 130	30
Dibromomethane	ND	5.0	101	106	4.8	104	102	1.9	70 - 130	30
Dichlorodifluoromethane	ND	5.0	98	98	0.0	107	104	2.8	70 - 130	30
Ethylbenzene	ND	1.0	106	107	0.9	108	102	5.7	70 - 130	30
Hexachlorobutadiene	ND	5.0	106	103	2.9	106	90	16.3	70 - 130	30
Isopropylbenzene	ND	1.0	113	115	1.8	116	110	5.3	70 - 130	30
m&p-Xylene	ND	2.0	109	109	0.0	111	104	6.5	70 - 130	30
Methyl ethyl ketone	ND	5.0	90	100	10.5	91	89	2.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	103	5.0	103	99	4.0	70 - 130	30
Methylene chloride	ND	5.0	99	103	4.0	103	100	3.0	70 - 130	30
Naphthalene	ND	5.0	114	117	2.6	112	105	6.5	70 - 130	30
n-Butylbenzene	ND	1.0	111	109	1.8	114	100	13.1	70 - 130	30
n-Propylbenzene	ND	1.0	111	110	0.9	112	103	8.4	70 - 130	30
o-Xylene	ND	2.0	109	110	0.9	111	103	7.5	70 - 130	30
p-Isopropyltoluene	ND	1.0	113	110	2.7	114	103	10.1	70 - 130	30
sec-Butylbenzene	ND	1.0	114	112	1.8	116	107	8.1	70 - 130	30
Styrene	ND	5.0	96	98	2.1	98	92	6.3	70 - 130	30
tert-Butylbenzene	ND	1.0	113	112	0.9	115	107	7.2	70 - 130	30
Tetrachloroethene	ND	5.0	107	107	0.0	109	102	6.6	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	97	105	7.9	99	97	2.0	70 - 130	30
Toluene	ND	1.0	106	109	2.8	110	105	4.7	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	110	115	4.4	114	109	4.5	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	112	119	6.1	114	109	4.5	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	127	132	3.9	118	118	0.0	70 - 130	30
Trichloroethene	ND	5.0	109	112	2.7	107	104	2.8	70 - 130	30
Trichlorofluoromethane	ND	5.0	108	109	0.9	110	106	3.7	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	100	98	2.0	100	99	1.0	70 - 130	30
Vinyl chloride	ND	5.0	113	118	4.3	116	113	2.6	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	96	%	99	99	0.0	99	99	0.0	70 - 130	30
% Dibromofluoromethane	98	%	99	102	3.0	98	98	0.0	70 - 130	30
% Toluene-d8	100	%	101	102	1.0	101	103	2.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


 Phyllis Shiller, Laboratory Director
 June 28, 2023

Wednesday, June 28, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO08002 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO08002-CO08026

Sampling Date(s): 5/17/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>VPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Wednesday, June 28, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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SDG Comments

Metals Analysis:

For some samples the client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 679764 (Samples: CO08002, CO08003, CO08004, CO08005, CO08006, CO08007, CO08008, CO08009, CO08010, CO08011, CO08013, CO08014, CO08015): -----

The MS/MSD RPD exceeds the method criteria, therefore there may be variability in the reported result. (Ext. Petroleum H.C. (C9-C36), % COD (surr), % Terphenyl (surr))

Instrument:

AU-FID11 05/27/23-1

Jeff Bucko, Chemist 05/27/23

CO08002 (1X), CO08003 (1X), CO08004 (1X), CO08005 (1X), CO08006 (1X), CO08008 (1X), CO08009 (1X), CO08010 (1X), CO08011 (1X)

The initial calibration (ETPH510I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (527A004_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO08002, CO08003, CO08004, CO08005, CO08006, CO08008, CO08009, CO08010, CO08011

Preceding CC 527A018 - ETPH (C9-C36) 33%H (30%)

Succeeding CC 527A031 - None.

AU-FID11 05/30/23-1

Jeff Bucko, Chemist 05/30/23

CO08013 (1X), CO08014 (1X)

The initial calibration (ETPH510I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (530A003) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 05/27/23-1

Jeff Bucko, Chemist 05/27/23

CO08015 (1X)

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (527A004_1) and contained the following outliers: C36 31.9%L (20%)

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 05/30/23-1

Jeff Bucko, Chemist 05/30/23

CO08007 (5X)

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (530A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO08007

Preceding CC 530A028 - % Terphenyl (surr) 36%H (30%)

Succeeding CC 530A041 - None.



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ETPH Narration

AU-XL1 05/30/23-1

Jeff Bucko, Chemist 05/30/23

CO08016 (1X), CO08017 (1X), CO08018 (1X), CO08019 (1X), CO08020 (1X), CO08021 (1X), CO08022 (1X), CO08023 (1X), CO08024 (1X)
The initial calibration (ETPH515I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (530A003_2) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 05/31/23-1

Jeff Bucko, Chemist 05/31/23

CO08012 (1X)

The initial calibration (ETPH515I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run (531A009_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 679940 (CO09923)

CO08012

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QC (Site Specific):

Batch 679764 (CO08006)

CO08002, CO08003, CO08004, CO08005, CO08006, CO08007, CO08008, CO08009, CO08010, CO08011, CO08013, CO08014, CO08015

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % COD (surr)(33.7%), % Terphenyl (surr)(46.0%), Ext. Petroleum H.C. (C9-C36)(48.6%)
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 679785 (CO08024)

CO08016, CO08017, CO08018, CO08019, CO08020, CO08021, CO08022, CO08023, CO08024

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration



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Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/26/23 14:54 Alexander Latka, Chemist 05/26/23

CO08010, CO08011, CO08013, CO08014, CO08015, CO08016

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 679634 (CO07576)

CO08010, CO08011, CO08013, CO08014, CO08015, CO08016

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 05/26/23 09:07 Cindy Pearce, Tina Hall, Chemist 05/26/23

CO08002, CO08003, CO08004, CO08005, CO08006, CO08009, CO08010, CO08011, CO08013, CO08014, CO08015, CO08016, CO08017, CO08019, CO08020

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 06/27/23 09:50 Cindy Pearce, Tina Hall, Chemist 06/27/23

CO08010, CO08011, CO08015, CO08016

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/19/23 12:45 Cindy Pearce, Chemist 05/19/23



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ICP Metals Narration

CO08021, CO08022

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 678477 (CO07579)

CO08002, CO08003, CO08004, CO08005, CO08006, CO08009, CO08010, CO08011, CO08013, CO08014, CO08015, CO08016, CO08017, CO08019, CO08020

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 683383 (CO00632)

CO08010, CO08011, CO08015, CO08016

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 678478 (CO08022)

CO08021, CO08022

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 05/27/23-1

Saadia Chudary, Chemist 05/27/23

CO08010 (10X), CO08011 (10X), CO08012 (5X), CO08013 (10X), CO08014 (5X), CO08015 (10X), CO08016 (10X), CO08018 (10X)

The initial calibration (PC0505AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0505BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

QC (Batch Specific):

Batch 679726 (CO10161)

CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08018



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PCB Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 679750 (Samples: CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08018): -----

Several QC recoveries are below the lower range. A low bias is possible. (4-Chloroaniline)

The LCS/LCSD is below the method criteria. A low bias for this analyte is possible. (3-Nitroaniline)

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s) so no significant variability is suspected. (Pyridine)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (3,3'-Dichlorobenzidine, Benzidine, Pyridine)

Instrument:

CHEM19 05/26/23-1 Matt Richard, Chemist 05/26/23

CO08002 (1X), CO08003 (1X), CO08004 (1X), CO08005 (1X), CO08006 (1X), CO08009 (1X), CO08017 (1X), CO08019 (1X), CO08020 (1X), CO08021 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0519):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Fluoranthene 21% (20%)

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0526_03-19_BN_0519):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM28 05/29/23-2 Matt Richard, Chemist 05/29/23

CO08010 (1X), CO08011 (1X), CO08012 (1X), CO08013 (1X), CO08014 (1X), CO08015 (1X), CO08016 (1X), CO08018 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_SPLIT_0523):



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SVOA Narration

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.056 (0.1), Hexachlorobenzene 0.082 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0529_03-28_SPLIT_0523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.061 (0.1), Hexachlorobenzene 0.080 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM36 05/26/23-2

Matt Richard, Chemist 05/26/23

CO08022 (1X), CO08023 (1X), CO08024 (1X)

Initial Calibration Evaluation (CHEM36/36_BN_0523):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM36/0526_23-36_BN_0523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 679725 (CO14809)

CO08002, CO08003, CO08004, CO08005, CO08006, CO08009, CO08017, CO08019, CO08020, CO08021

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 679750 (CO07579)

CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08018

All LCS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), 3-Nitroaniline(39%), 4-Chloroaniline(26%), Benzidine(<10%), Pyridine(10%)

All LCSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), 3-Nitroaniline(29%), 4-Chloroaniline(25%), Benzidine(<10%), Pyridine(18%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Pyridine(57.1%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid



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SVOA Narration

surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 679752 (CO08511)

CO08022, CO08023, CO08024

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 679109 (Samples: CO08002, CO08003, CO08004, CO08005, CO08006, CO08007, CO08008, CO08009): -----

The LCS/LCSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (trans-1,4-dichloro-2-butene)

The MS/MSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (Methylene chloride)

QC Batch 679162 (Samples: CO08023, CO08024): -----

The LCSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (trans-1,4-dichloro-2-butene)

QC Batch 679277 (Samples: CO08010, CO08011, CO08012, CO08013, CO08014, CO08015, CO08016, CO08017, CO08018, CO08019, CO08020, CO08021, CO08022, CO08025): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific MSD is below the lower range, therefore a low bias is possible. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, trans-1,4-dichloro-2-butene)

The MS/MSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (Methylene chloride)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene)

QC Batch 679277H: -----

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM26 05/22/23-2

Jane Li, Chemist 05/22/23

CO08010 (1X), CO08011 (1X), CO08012 (1X), CO08013 (1X), CO08014 (1X), CO08015 (1X), CO08016 (1X), CO08017 (1X), CO08018 (1X), CO08019 (1X), CO08020 (1X), CO08021 (1X, 50X), CO08022 (1X), CO08025 (1X), CO08026 (50X)



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VOA Narration

Initial Calibration Evaluation (CHEM26/VT-052223):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 24% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1), Tetrachloroethene 0.172 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0522_17-VT-052223):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/21/23-1

Jane Li, Chemist 05/21/23

CO08002 (1X), CO08003 (1X), CO08004 (1X), CO08005 (1X), CO08006 (1X), CO08007 (1X), CO08008 (1X), CO08009 (1X)

Initial Calibration Evaluation (CHEM31/VT-L051023):

95% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 22% (20%), Naphthalene 23% (20%), trans-1,3-Dichloropropene 25% (20%), trans-1,4-dichloro-2-butene 37% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.094 (0.1), Bromoform 0.098 (0.1), Tetrachloroethene 0.144 (0.2), Trichloroethene 0.188 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0521_02-VT-L051023):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/22/23-2

Jane Li, Chemist 05/22/23

CO08023 (1X), CO08024 (1X)

Initial Calibration Evaluation (CHEM31/VT-L051023):

95% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 22% (20%), Naphthalene 23% (20%), trans-1,3-Dichloropropene 25% (20%), trans-1,4-dichloro-2-butene 37% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.094 (0.1), Bromoform 0.098 (0.1), Tetrachloroethene 0.144 (0.2), Trichloroethene 0.188 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0522_34-VT-L051023):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 28, 2023

SDG I.D.: GCO08002

VOA Narration

Batch 679162 (CO11018) CHEM31 5/22/2023-2

CO08023(1X), CO08024(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(132%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QC (Site Specific):

Batch 679109 (CO08006) CHEM31 5/21/2023-1

CO08002(1X), CO08003(1X), CO08004(1X), CO08005(1X), CO08006(1X), CO08007(1X), CO08008(1X), CO08009(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(131%)

All LCSD recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(143%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: Methylene chloride(165%)

All MSD recoveries were within 70 - 130 with the following exceptions: Methylene chloride(155%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 679277 (CO08021) CHEM26 5/22/2023-2

CO08010(1X), CO08011(1X), CO08012(1X), CO08013(1X), CO08014(1X), CO08015(1X), CO08016(1X), CO08017(1X), CO08018(1X), CO08019(1X), CO08020(1X), CO08021(1X), CO08022(1X), CO08025(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(69%), Methylene chloride(140%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(47%), 1,2,4-Trichlorobenzene(49%), Hexachlorobutadiene(68%), Methylene chloride(147%), Naphthalene(54%), trans-1,4-dichloro-2-butene(69%)

All MS/MSD RPDs were less than 30% with the following exceptions: 1,2,3-Trichlorobenzene(37.9%), 1,2,4-Trichlorobenzene(35.3%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 679277H (CO08021) CHEM26 5/22/2023-2

CO08026(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(20%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(20%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: Chloroethane(26%), Trichlorofluoromethane(21%)

All MSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(20%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 28, 2023

SDG I.D.: GCO08002

VOA Narration

compounds are within criteria.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.9C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Coolant: Yes No
 IPK ICE
 Temp 1.9 °C Pg 1 of 3

Data Delivery/Contact Options:
 Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Project: Brainard Airport Project P.O.: 12-5182-001
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

This section MUST be completed with Bottle Quantities.

Analysis Request	CT EPA (DPH METHOD)	VOCs (EPA 8270)	PAHs (EPA 8270)	Total PCBs & Metals	Total Lead	Total Arsenic	Total PCBs (892)	Soil Particles (892)	Soil VOA Vial (1 methanol/2 H2O)	GL Soil container (8 oz)	GL Amber 100ml [As Is] [HCl]	PL H2SO4 [250ml] [500ml] [1000ml]	PL H2SO4 [250ml] [500ml] [1000ml]	PL HNO3 250ml	Genera Bottle as is	Hold
CT EPA (DPH METHOD)	X															
VOCs (EPA 8270)	X	X														
PAHs (EPA 8270)	X		X													
Total PCBs & Metals	X			X												
Total Lead	X				X											
Total Arsenic	X					X										
Total PCBs (892)																
Soil Particles (892)																
Soil VOA Vial (1 methanol/2 H2O)																
GL Soil container (8 oz)																
GL Amber 100ml [As Is] [HCl]																
PL H2SO4 [250ml] [500ml] [1000ml]																
PL H2SO4 [250ml] [500ml] [1000ml]																
PL HNO3 250ml																
Genera Bottle as is																

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/17/22

Matrix Code: GW=Ground Water SW=Surface Water WW=Waste Water
 DW=Drinking Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil
 B=Bulk L=Liquid X = _____ (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
08002	B-57(10-12)	S	5/17/22	1025
08003	B-58(8-10)			1010
08004	B-59(10-12)			0945
08005	bup-7			0940
08006	B-63(10-12)			1300
08007	B-60(10-12)			0925
08008	B-64(10-12)			1240
08009	B-65(10-12)			1220
08010	B-88(1-3)			1145
08011	bup-8			1146
08012	B-101(8-10)			1130
08013	B-89(3-5)			1110

Relinquished by: [Signature] Accepted by: [Signature] Date: 5/17/22 Time: 1530

Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

Comments, Special Requirements or Regulations:

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.
 State where samples were collected: CT
 * SURCHARGE APPLIES

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Thursday, May 18, 2023 2:06 PM
To: Sarah Bell
Cc: Jill L. Libby
Subject: FW: Phoenix Labs - GCO08002, BRAINARD AIRPORT - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Hi Sarah,

A few changes to the requested analytical associated with this acknowledgement:

- B-115 (1-3')/CO08019: Analyze for total lead instead of total RSR metals
- B-116 (1-3')/CO08020: Analyze for total lead instead of total RSR metals
- B-117 (0.25-2.25')/CO08021: Analyze for total lead instead of total RSR metals
- B-117 (8-10')/CO08022: Analyze for total lead instead of total RSR metals

Also, please keep samples for 60 days and notify before disposal. Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

w: tighebond.com | halvorsondesign.com



From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Wednesday, May 17, 2023 10:55 PM

To: Mark Paulsson <MPaulsson@TigheBond.com>

Subject: Phoenix Labs - GCO08002, BRAINARD AIRPORT - COC Acknowledgement

[Caution - External Sender]

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 12-5182-001

Samples Will Be Disposed After: 30 Days

GCO08002 Criteria:

SOIL(25): CT GBM (GB Mobility), CT I/C (I/C Dec), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed. Criteria added post-reporting requires re-evaluation of data and possible re-analysis therefore charges may apply. Project objectives not communicated at time of submittal may not be achieved.

Delivery group GCO08002 (BRAINARD AIRPORT) has been logged in for the following samples:

Phoenix Id	Client Id
CO08002	B-57(10-12)
CO08003	B-58(8-10)
CO08004	B-59(10-12)
CO08005	DUP-7
CO08006	B-63(10-12)
CO08007	B-60(10-12)
CO08008	B-64(10-12)
CO08009	B-65(10-12)

CO08010	B-88(1-3)
CO08011	DUP-8
CO08012	B-101(8-10)
CO08013	B-89(3-5)
CO08014	B-89(8-10)
CO08015	B-90(0.5-2.5)
CO08016	B-92(2-4)
CO08017	B-92(8-10)
CO08018	B-102(8-10)
CO08019	B-115(1-3)
CO08020	B-116 (1-3)
CO08021	B-117(0.25-2.25)
CO08022	B-117(8-10)
CO08023	B-133(1-3)
CO08024	DUP-9
CO08025	TB051723L
CO08026	TB051723H

This SDG has been logged in for Standard 7 business day turn-around time.

The samples were received at 1.9C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102

Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc'd: J.Olsen@tighebond.com; jlliby@tighebond.com; cwatts@tighebond.com; MPaulsson@TigheBond.com; jackson@tighebond.com

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:39 AM
To: Shannon Wilhelm; Sarah Bell; Jill L. Libby
Subject: RE: SPLP Analysis

Yes, that is fine. Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

www.tighebond.com | halvorsondesign.com



From: Shannon Wilhelm <shannon@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:37 AM
To: Mark Paulsson <MPaulsson@TigheBond.com>; Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

Also, I just realized the SPLP HG would be past holding time too. Okay to proceed?

Shannon Wilhelm
Client Services Representative
Phoenix Environmental Laboratories
587 East Middle Turnpike

Manchester CT 06040
860-645-1102

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:28 AM
To: Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Cc: Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

Yes, please do. Thanks!

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484
w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:26 AM
To: Jill L. Libby <JLLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>; Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

[**Caution - External Sender**]

SPLP Pesticides are past holding time do you still want to run?

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
[Website: www.phoenixlabs.com](http://www.phoenixlabs.com)

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Tuesday, June 20, 2023 9:52 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

Thanks Sarah,
Could I please get the following SPLP analysis added with 5-day TAT?

Jill

SPLP Chromium (Total)	B-43	CN94966
SPLP Lead	B-43	CN94966
SPLP Mercury	B-43	CN94966
SPLP Lead	HA-1	CO00632
SPLP Lead	HA-5	CO00634
SPLP Lead	HA-9	CO00636
SPLP Lead	HA-10	CO00637
SPLP Lead	HA-44	CO00644
SPLP Lead	HA-46	CO00646
SPLP Lead	HA-47	CO00647
SPLP Vanadium	HA-39	CO00651
SPLP Copper	HA-24	CO01220
SPLP Lead	HA-24	CO01220
SPLP Zinc	HA-24	CO01220

SPLP Zinc	HA-25	CO01221
SPLP Lead	HA-26	CO01222
SPLP Pesticides	HA-26	CO01222
SPLP Lead	HA-28	CO01224
SPLP Lead	HA-29	CO01225
SPLP Lead	HA-30	CO01226
SPLP Lead	HA-31	CO01227
SPLP Lead	HA-32	CO01228
SPLP Pesticides	HA-32	CO01228
SPLP Barium	B-88	CO08010
SPLP Beryllium	B-88	CO08010
SPLP Nickel	B-88	CO08010
SPLP Vanadium	B-88	CO08010
SPLP Barium	DUP-8	CO08011
SPLP Beryllium	DUP-8	CO08011
SPLP Nickel	DUP-8	CO08011
SPLP Vanadium	DUP-8	CO08011
SPLP Barium	B-90	CO08015
SPLP Barium	B-92	CO08016
SPLP Beryllium	B-92	CO08016
SPLP Chromium (Total)	B-92	CO08016
SPLP Nickel	B-92	CO08016
SPLP Vanadium	B-92	CO08016
SPLP Copper	B-108	CO09181
SPLP Vanadium	B-108	CO09181
SPLP Barium	B-122	CO10278
SPLP Chromium (Total)	B-122	CO10278
SPLP Barium	B-123	CO10279
SPLP Mercury	B-123	CO10279
SPLP Chromium (Total)	B-127	CO10282
SPLP Copper	B-127	CO10282
SPLP Nickel	B-127	CO10282
SPLP Chromium (Total)	B-135	CO11308

SPLP Lead	B-135	CO11308
SPLP Mercury	B-135	CO11308
SPLP Copper	B-145	CO11311
SPLP Zinc	B-145	CO11311
SPLP Pesticides	HA-34	CO11319
SPLP Pesticides	HA-40	CO11322
SPLP Pesticides	DUP-13	CO11323

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby (she/her/hers)

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090

w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Friday, June 16, 2023 4:06 PM
To: Jill L. Libby <JLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

We should have the rest there are only like 3 we won't have I put NO in the box

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
[Website: www.phoenixlabs.com](http://www.phoenixlabs.com)

From: Jill L. Libby <JLibby@tigheBond.com>
Sent: Friday, June 16, 2023 12:43 PM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: SPLP Analysis

Sarah,
We are thinking of running the following samples for some SPLP metals. Could you please let us know if you have the following samples still? If you, we will let you know which metals/pests to run on which samples.
Thanks,
Jill

ID	lab ID	Still have?
B-108	CO09181	
B-112	CN92792	NO
B-122	CO10278	
B-123	CO10279	
B-127	CO10282	
B-135	CO11308	
B-145	CO11311	
B-3	CN93805	NO
B-43	CN94966	
B-88	CO08010	
B-90	CO08015	
B-92	CO08016	

B-93	CN93820	NO
DUP-13	CO11323	
DUP-8	CO08011	
HA-1	CO00632	
HA-10	CO00637	
HA-24	CO01220	
HA-25	CO01221	
HA-26	CO01222	
HA-26	CO01222	
HA-28	CO01224	
HA-29	CO01225	
HA-30	CO01226	
HA-31	CO01227	
HA-32	CO01228	
HA-32	CO01228	
HA-34	CO11319	
HA-39	CO00651	
HA-40	CO11322	
HA-44	CO00644	
HA-46	CO00646	
HA-47	CO00647	
HA-5	CO00634	
HA-9	CO00636	

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby (she/her/hers)

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090
w: tighebond.com | halvorsondesign.com





Friday, June 02, 2023

Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO09163
Sample ID#s: CO09163 - CO09185

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 02, 2023

SDG I.D.: GCO09163

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-61 (10-12`)	CO09163	SOIL
B-62 (10-11`)	CO09164	SOIL
B-66 (9-10`)	CO09165	SOIL
B-67 (7-9`)	CO09166	SOIL
B-68 (8-10`)	CO09167	SOIL
B-69 (8-10`)	CO09168	SOIL
B-70 (8-10`)	CO09169	SOIL
B-71 (8-10`)	CO09170	SOIL
B-72 (8-10`)	CO09171	SOIL
B-73 (8-10`)	CO09172	SOIL
B-74 (8-10`)	CO09173	SOIL
B-75 (5-7`)	CO09174	SOIL
B-76 (8-10`)	CO09175	SOIL
B-77 (10-12`)	CO09176	SOIL
B-78 (9-10`)	CO09177	SOIL
B-79 (11-12`)	CO09178	SOIL
B-80 (10-11`)	CO09179	SOIL
B-81 (10-11`)	CO09180	SOIL
B-108 (1-2`)	CO09181	SOIL
DUP-10	CO09182	SOIL
DUP-11	CO09183	SOIL
TB-H	CO09184	SOIL
TB-LL	CO09185	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

12:20
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09163

Project ID: BRAINARD AIRPORT
 Client ID: B-61 (10-12')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.28	0.43	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	79		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	B/M	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	92		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	87		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.58	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Chrysene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	68		%	1	05/27/23	KCA	30 - 130 %
% Nitrobenzene-d5	60		%	1	05/27/23	KCA	30 - 130 %
% Terphenyl-d14	74		%	1	05/27/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

11:32
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09164

Project ID: BRAINARD AIRPORT
 Client ID: B-62 (10-11`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	129		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	120		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.59	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

8:05
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09165

Project ID: BRAINARD AIRPORT
 Client ID: B-66 (9-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.08	0.34	mg/Kg	1	05/26/23	CPP	SW6010D
Percent Solid	91		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	B/M	SW3546
Total Metals Digest	Completed				05/18/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	75		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.56	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	87		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	69		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Anthracene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Chrysene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Fluoranthene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Fluorene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Phenanthrene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
Pyrene	ND	250	ug/Kg	1	05/27/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	63		%	1	05/27/23	KCA	30 - 130 %
% Nitrobenzene-d5	58		%	1	05/27/23	KCA	30 - 130 %
% Terphenyl-d14	66		%	1	05/27/23	KCA	30 - 130 %

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

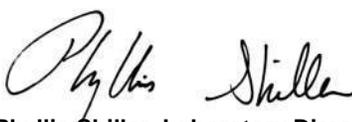
Comments:

Volatile Comment:

**Poor surrogate recovery was observed for volatiles due to matrix interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

8:18
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09166

Project ID: BRAINARD AIRPORT
 Client ID: B-67 (7-9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	130		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	129		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/21/23	HM	SW8260C
1,1,1-Trichloroethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/21/23	HM	SW8260C
1,1,2-Trichloroethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,1-Dichloroethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,1-Dichloroethene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,1-Dichloropropene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,2,3-Trichloropropane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	84	ug/Kg	50	05/21/23	HM	SW8260C
1,2-Dibromoethane	ND	42	ug/Kg	50	05/21/23	HM	SW8260C
1,2-Dichlorobenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/21/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,3-Dichlorobenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,3-Dichloropropane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
1,4-Dichlorobenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
2,2-Dichloropropane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
2-Chlorotoluene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
2-Hexanone	ND	2100	ug/Kg	50	05/21/23	HM	SW8260C
2-Isopropyltoluene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
4-Chlorotoluene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
4-Methyl-2-pentanone	ND	2100	ug/Kg	50	05/21/23	HM	SW8260C
Acetone	ND	21000	ug/Kg	50	05/21/23	HM	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/21/23	HM	SW8260C
Benzene	ND	200	ug/Kg	50	05/21/23	HM	SW8260C
Bromobenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Bromochloromethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/21/23	HM	SW8260C
Bromoform	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Bromomethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Carbon Disulfide	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Carbon tetrachloride	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Chlorobenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Chloroethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Chloroform	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Chloromethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/21/23	HM	SW8260C
Dibromomethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Dichlorodifluoromethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Ethylbenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Hexachlorobutadiene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Isopropylbenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
m&p-Xylene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Methyl Ethyl Ketone	ND	2500	ug/Kg	50	05/21/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	840	ug/Kg	50	05/21/23	HM	SW8260C
Methylene chloride	ND	840	ug/Kg	50	05/21/23	HM	SW8260C
Naphthalene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
n-Butylbenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
n-Propylbenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
o-Xylene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
p-Isopropyltoluene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
sec-Butylbenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Styrene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
tert-Butylbenzene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Tetrachloroethene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	800	ug/Kg	50	05/21/23	HM	SW8260C
Toluene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Total Xylenes	ND	420	ug/Kg	50	05/21/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	840	ug/Kg	50	05/21/23	HM	SW8260C
Trichloroethene	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Trichlorofluoromethane	ND	420	ug/Kg	50	05/21/23	HM	SW8260C
Trichlorotrifluoroethane	ND	840	ug/Kg	50	05/21/23	HM	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/21/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/21/23	HM	70 - 130 %
% Bromofluorobenzene (50x)	101		%	50	05/21/23	HM	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	05/21/23	HM	70 - 130 %
% Toluene-d8 (50x)	92		%	50	05/21/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

8:40
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09167

Project ID: BRAINARD AIRPORT
 Client ID: B-68 (8-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	12.4	0.44	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	75		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	B/M	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	112		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	109		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/22/23	HM	SW8260C
1,1,1-Trichloroethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/22/23	HM	SW8260C
1,1,2-Trichloroethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,1-Dichloroethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,1-Dichloroethene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,1-Dichloropropene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,2,3-Trichloropropane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,2,4-Trimethylbenzene	2200	380	ug/Kg	50	05/22/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	77	ug/Kg	50	05/22/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	38	ug/Kg	50	05/22/23	HM	SW8260C
1,2-Dichlorobenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/22/23	HM	SW8260C
1,2-Dichloropropane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,3,5-Trimethylbenzene	810	380	ug/Kg	50	05/22/23	HM	SW8260C
1,3-Dichlorobenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,3-Dichloropropane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
1,4-Dichlorobenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
2,2-Dichloropropane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
2-Chlorotoluene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
2-Hexanone	ND	1900	ug/Kg	50	05/22/23	HM	SW8260C
2-Isopropyltoluene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
4-Chlorotoluene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
4-Methyl-2-pentanone	ND	1900	ug/Kg	50	05/22/23	HM	SW8260C
Acetone	ND	19000	ug/Kg	50	05/22/23	HM	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/22/23	HM	SW8260C
Benzene	ND	200	ug/Kg	50	05/22/23	HM	SW8260C
Bromobenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Bromochloromethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/22/23	HM	SW8260C
Bromoform	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Bromomethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Carbon Disulfide	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Carbon tetrachloride	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Chlorobenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Chloroethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Chloroform	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Chloromethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/22/23	HM	SW8260C
Dibromomethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Dichlorodifluoromethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Ethylbenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Hexachlorobutadiene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Isopropylbenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
m&p-Xylene	5700	380	ug/Kg	50	05/22/23	HM	SW8260C
Methyl Ethyl Ketone	ND	2300	ug/Kg	50	05/22/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	770	ug/Kg	50	05/22/23	HM	SW8260C
Methylene chloride	ND	770	ug/Kg	50	05/22/23	HM	SW8260C
Naphthalene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
n-Butylbenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
n-Propylbenzene	780	380	ug/Kg	50	05/22/23	HM	SW8260C
o-Xylene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
p-Isopropyltoluene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
sec-Butylbenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Styrene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
tert-Butylbenzene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Tetrachloroethene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	770	ug/Kg	50	05/22/23	HM	SW8260C
Toluene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Total Xylenes	5700	380	ug/Kg	50	05/22/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	770	ug/Kg	50	05/22/23	HM	SW8260C
Trichloroethene	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Trichlorofluoromethane	ND	380	ug/Kg	50	05/22/23	HM	SW8260C
Trichlorotrifluoroethane	ND	770	ug/Kg	50	05/22/23	HM	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/22/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	05/22/23	HM	70 - 130 %
% Bromofluorobenzene (50x)	104		%	50	05/22/23	HM	70 - 130 %
% Dibromofluoromethane (50x)	94		%	50	05/22/23	HM	70 - 130 %
% Toluene-d8 (50x)	63		%	50	05/22/23	HM	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Anthracene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Chrysene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Fluorene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
Pyrene	ND	310	ug/Kg	1	05/27/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	70		%	1	05/27/23	KCA	30 - 130 %
% Nitrobenzene-d5	64		%	1	05/27/23	KCA	30 - 130 %
% Terphenyl-d14	72		%	1	05/27/23	KCA	30 - 130 %

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.
Elevated surrogate recovery was observed for volatiles due to matrix interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

8:50
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09168

Project ID: BRAINARD AIRPORT
 Client ID: B-69 (8-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.16	0.41	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	77		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/26/23	B/M	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	70		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	71		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.55	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Chrysene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Fluorene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
Pyrene	ND	300	ug/Kg	1	05/27/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	57		%	1	05/27/23	KCA	30 - 130 %
% Nitrobenzene-d5	52		%	1	05/27/23	KCA	30 - 130 %
% Terphenyl-d14	65		%	1	05/27/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

9:05
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09169

Project ID: BRAINARD AIRPORT
 Client ID: B-70 (8-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.32	0.44	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	76		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	63		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	63		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.53	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	88		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	73		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	88		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	76		%	1	05/29/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

12:38
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09170

Project ID: BRAINARD AIRPORT
 Client ID: B-71 (8-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.09	0.40	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	76		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	73		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	75		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.61	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.7	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	37	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	6.1	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	90		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	91		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	77		%	1	05/29/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/18/23
05/18/23

Time

12:50
15:42

Laboratory Data

SDG ID: GCO09163
Phoenix ID: CO09171

Project ID: BRAINARD AIRPORT
Client ID: B-72 (8-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	118		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	116		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.58	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

11:52
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09172

Project ID: BRAINARD AIRPORT
 Client ID: B-73 (8-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.15	0.42	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	77		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	71		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	74		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	6.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	1.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	53	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	53	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	530	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	6.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	64	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	21	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	21	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	21	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	21	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	21	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	90		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	92		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	78		%	1	05/29/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

13:05
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09173

Project ID: BRAINARD AIRPORT
 Client ID: B-74 (8-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.53	0.44	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	76		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	77		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	76		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.57	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	97		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	88		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	74		%	1	05/29/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

14:05
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09174

Project ID: BRAINARD AIRPORT
 Client ID: B-75 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	11.3	0.42	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	74		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	82		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	80		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	82	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	41	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
2-Hexanone	ND	2000	ug/Kg	50	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	2000	ug/Kg	50	05/23/23	JLI	SW8260C
Acetone	ND	20000	ug/Kg	50	05/23/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
Bromobenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Bromochloromethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/23/23	JLI	SW8260C
Bromoform	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Bromomethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Chlorobenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroform	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Chloromethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromomethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Ethylbenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
m&p-Xylene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	2400	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	820	ug/Kg	50	05/23/23	JLI	SW8260C
Methylene chloride	ND	820	ug/Kg	50	05/23/23	JLI	SW8260C
Naphthalene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
n-Propylbenzene	260	240	ug/Kg	50	05/23/23	JLI	SW8260C
o-Xylene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Styrene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	800	ug/Kg	50	05/23/23	JLI	SW8260C
Toluene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Total Xylenes	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	820	ug/Kg	50	05/23/23	JLI	SW8260C
Trichloroethene	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	410	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	820	ug/Kg	50	05/23/23	JLI	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	100		%	50	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	86		%	50	05/23/23	JLI	70 - 130 %
% Toluene-d8 (50x)	65		%	50	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	93		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	76		%	1	05/29/23	RM	30 - 130 %

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

**Poor surrogate recovery was observed for volatiles due to matrix interference.

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

13:20
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09175

Project ID: BRAINARD AIRPORT
 Client ID: B-76 (8-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	68		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	69		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.58	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

9:30
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09176

Project ID: BRAINARD AIRPORT
 Client ID: B-77 (10-12')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	6.52	0.40	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	77		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	64		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	64		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.55	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	90		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	88		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	75		%	1	05/29/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

9:55
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09177

Project ID: BRAINARD AIRPORT
 Client ID: B-78 (9-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	S/R/A/E	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	68		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	66		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	450	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	87	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	44	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	190	170	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
2-Hexanone	ND	2200	ug/Kg	50	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	2200	ug/Kg	50	05/23/23	JLI	SW8260C
Acetone	ND	22000	ug/Kg	50	05/23/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
Bromobenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Bromochloromethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/23/23	JLI	SW8260C
Bromoform	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Bromomethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Chlorobenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroform	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Chloromethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromomethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Ethylbenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
m&p-Xylene	620	440	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	2600	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	870	ug/Kg	50	05/23/23	JLI	SW8260C
Methylene chloride	ND	870	ug/Kg	50	05/23/23	JLI	SW8260C
Naphthalene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
o-Xylene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Styrene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	800	ug/Kg	50	05/23/23	JLI	SW8260C
Toluene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Total Xylenes	620	440	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	870	ug/Kg	50	05/23/23	JLI	SW8260C
Trichloroethene	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	440	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	870	ug/Kg	50	05/23/23	JLI	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	88		%	50	05/23/23	JLI	70 - 130 %
% Toluene-d8 (50x)	76		%	50	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
 Elevated reporting limits for volatiles due to the presence of non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

10:15
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09178

Project ID: BRAINARD AIRPORT
 Client ID: B-79 (11-12`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	8.18	0.43	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	71		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	77		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	73		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.63	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	6.3	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	88		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	330	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	93		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	79		%	1	05/29/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/18/23
05/18/23

Time

10:35
15:42

Laboratory Data

SDG ID: GCO09163
Phoenix ID: CO09179

Project ID: BRAINARD AIRPORT
Client ID: B-80 (10-11`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.32	0.40	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	73		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	68	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	77		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	71		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.60	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	88		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	91		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	76		%	1	05/29/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

11:14
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09180

Project ID: BRAINARD AIRPORT
 Client ID: B-81 (10-11`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	77		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	70		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	70		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.49	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	9.9	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.9	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	4.9	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

14:25
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09181

Project ID: BRAINARD AIRPORT
 Client ID: B-108 (1-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	05/30/23	TH	SW6010D
Arsenic	0.89	0.64	mg/Kg	1	05/30/23	TH	SW6010D
Barium	33.2	0.32	mg/Kg	1	05/30/23	TH	SW6010D
Beryllium	< 0.26	0.26	mg/Kg	1	05/30/23	TH	SW6010D
Cadmium	0.38	0.32	mg/Kg	1	05/30/23	TH	SW6010D
Chromium	9.86	0.32	mg/Kg	1	05/30/23	TH	SW6010D
Copper	47.0	0.6	mg/kg	1	05/30/23	TH	SW6010D
Mercury	0.10	0.03	mg/Kg	2	05/30/23	AL1	SW7471B
Nickel	13.4	0.32	mg/Kg	1	05/30/23	TH	SW6010D
Lead	7.95	0.32	mg/Kg	1	05/30/23	TH	SW6010D
Antimony	< 3.2	3.2	mg/Kg	1	05/30/23	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	05/30/23	TH	SW6010D
Thallium	< 2.9	2.9	mg/Kg	1	05/30/23	TH	SW6010D
Vanadium	64.7	0.32	mg/Kg	1	05/30/23	TH	SW6010D
Zinc	39.3	0.6	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	95		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Mercury Digestion	Completed				05/30/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/27/23	Q/S/A	SW3546
Soil Extraction for PCB	Completed				05/24/23	C/M	SW3546
Soil Extraction for SVOA	Completed				05/27/23	Q/S/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	620	260	mg/Kg	5	06/01/23	JRB	CTETPH
Identification	**		mg/Kg	5	06/01/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	Interference		%	5	06/01/23	JRB	50 - 150 %
% Terphenyl (surr)	58		%	5	06/01/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	05/27/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	10	05/27/23	SC	30 - 150 %
% DCBP (Confirmation)	81		%	10	05/27/23	SC	30 - 150 %
% TCMX	78		%	10	05/27/23	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	05/27/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.81	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	40	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	40	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	400	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	4.8	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	48	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	8.1	ug/Kg	1	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/23/23	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2,4-Dinitrophenol	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
2-Nitroaniline	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
3-Nitroaniline	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
4-Chloroaniline	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
4-Nitroaniline	ND	560	ug/Kg	1	05/30/23	KCA	SW8270D
4-Nitrophenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Acenaphthene	610	250	ug/Kg	1	05/30/23	KCA	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Acetophenone	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Aniline	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
Anthracene	1300	250	ug/Kg	1	05/30/23	KCA	SW8270D
Benz(a)anthracene	10000	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Benzidine	ND	200	ug/Kg	1	05/30/23	KCA	SW8270D
Benzo(a)pyrene	12000	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(b)fluoranthene	16000	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(ghi)perylene	6200	250	ug/Kg	1	05/30/23	KCA	SW8270D
Benzo(k)fluoranthene	4900	250	ug/Kg	1	05/30/23	KCA	SW8270D
Benzoic acid	ND	700	ug/Kg	1	05/30/23	KCA	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	350	350	ug/Kg	1	05/30/23	KCA	SW8270D
Carbazole	1300	350	ug/Kg	1	05/30/23	KCA	SW8270D
Chrysene	12000	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Dibenz(a,h)anthracene	1600	250	ug/Kg	1	05/30/23	KCA	SW8270D
Dibenzofuran	370	250	ug/Kg	1	05/30/23	KCA	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dimethylphthalate	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Di-n-butylphthalate	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Fluoranthene	29000	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Fluorene	660	250	ug/Kg	1	05/30/23	KCA	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	6700	250	ug/Kg	1	05/30/23	KCA	SW8270D
Isophorone	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Naphthalene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	05/30/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	05/30/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
Phenanthrene	12000	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Phenol	ND	250	ug/Kg	1	05/30/23	KCA	SW8270D
Pyrene	21000	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Pyridine	ND	350	ug/Kg	1	05/30/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83		%	1	05/30/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	68		%	1	05/30/23	KCA	30 - 130 %
% 2-Fluorophenol	68		%	1	05/30/23	KCA	30 - 130 %
% Nitrobenzene-d5	77		%	1	05/30/23	KCA	30 - 130 %
% Phenol-d5	75		%	1	05/30/23	KCA	30 - 130 %
% Terphenyl-d14	48		%	1	05/30/23	KCA	30 - 130 %
% 2,4,6-Tribromophenol (10x)	Diluted Out		%	10	05/31/23	KCA	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	05/31/23	KCA	30 - 130 %
% 2-Fluorophenol (10x)	Diluted Out		%	10	05/31/23	KCA	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	05/31/23	KCA	30 - 130 %
% Phenol-d5 (10x)	Diluted Out		%	10	05/31/23	KCA	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	05/31/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

8:19
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09182

Project ID: BRAINARD AIRPORT
 Client ID: DUP-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	77		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/27/23	Q/S/A	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	05/30/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/30/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	76		%	1	05/30/23	JRB	50 - 150 %
% Terphenyl (surr)	76		%	1	05/30/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	94	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	47	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
2-Hexanone	ND	2300	ug/Kg	50	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	2300	ug/Kg	50	05/23/23	JLI	SW8260C
Acetone	ND	23000	ug/Kg	50	05/23/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
Bromobenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Bromochloromethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/23/23	JLI	SW8260C
Bromoform	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Bromomethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Chlorobenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroform	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Chloromethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromomethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Ethylbenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
m&p-Xylene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	2800	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	940	ug/Kg	50	05/23/23	JLI	SW8260C
Methylene chloride	ND	940	ug/Kg	50	05/23/23	JLI	SW8260C
Naphthalene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
o-Xylene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Styrene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	800	ug/Kg	50	05/23/23	JLI	SW8260C
Toluene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Total Xylenes	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	940	ug/Kg	50	05/23/23	JLI	SW8260C
Trichloroethene	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	470	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	940	ug/Kg	50	05/23/23	JLI	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/23/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	89		%	50	05/23/23	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/18/23
 05/18/23

Time

14:06
 15:42

Laboratory Data

SDG ID: GCO09163
 Phoenix ID: CO09183

Project ID: BRAINARD AIRPORT
 Client ID: DUP-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	11.9	0.41	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	75		%		05/18/23	CV	SW846-%Solid
Field Extraction	Completed				05/18/23		SW5035A
Extraction of ETPH	Completed				05/31/23	MO/H/A	SW3546
Soil Extraction for SVOA PAH	Completed				05/27/23	S/R/A/E	SW3546
Total Metals Digest	Completed				05/19/23	J/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	06/01/23	JRB	CTETPH
Identification	ND		mg/Kg	1	06/01/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	71		%	1	06/01/23	JRB	50 - 150 %
% Terphenyl (surr)	80		%	1	06/01/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	91	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	46	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
2-Hexanone	ND	2300	ug/Kg	50	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
4-Chlorotoluene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	2300	ug/Kg	50	05/23/23	JLI	SW8260C
Acetone	ND	23000	ug/Kg	50	05/23/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
Bromobenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Bromochloromethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/23/23	JLI	SW8260C
Bromoform	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Bromomethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Chlorobenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroform	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Chloromethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromomethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Ethylbenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Isopropylbenzene	310	270	ug/Kg	50	05/23/23	JLI	SW8260C
m&p-Xylene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	2700	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	910	ug/Kg	50	05/23/23	JLI	SW8260C
Methylene chloride	ND	910	ug/Kg	50	05/23/23	JLI	SW8260C
Naphthalene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
n-Propylbenzene	610	460	ug/Kg	50	05/23/23	JLI	SW8260C
o-Xylene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Styrene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	800	ug/Kg	50	05/23/23	JLI	SW8260C
Toluene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Total Xylenes	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	910	ug/Kg	50	05/23/23	JLI	SW8260C
Trichloroethene	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	460	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	910	ug/Kg	50	05/23/23	JLI	SW8260C
Vinyl chloride	ND	320	ug/Kg	50	05/23/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	05/23/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	100		%	50	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	85		%	50	05/23/23	JLI	70 - 130 %
% Toluene-d8 (50x)	51		%	50	05/23/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	05/29/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	79		%	1	05/29/23	RM	30 - 130 %
% Nitrobenzene-d5	93		%	1	05/29/23	RM	30 - 130 %
% Terphenyl-d14	79		%	1	05/29/23	RM	30 - 130 %

3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

**Poor surrogate recovery was observed for volatiles due to matrix interference.

Volatile Comment:

Elevated reporting limits for volatiles due to the presence of non-target compounds.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/18/23
05/18/23

Time

15:42

Laboratory Data

SDG ID: GCO09163
Phoenix ID: CO09184

Project ID: BRAINARD AIRPORT
Client ID: TB-H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/18/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/23/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/23/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/23/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/23/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/23/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/23/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/23/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/23/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/23/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	05/23/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	98		%	50	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	87		%	50	05/23/23	JLI	70 - 130 %
% Toluene-d8 (50x)	98		%	50	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 02, 2023

FOR: Jill Libby
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/18/23
05/18/23

Time

15:42

Laboratory Data

SDG ID: GCO09163
Phoenix ID: CO09185

Project ID: BRAINARD AIRPORT
Client ID: TB-LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/18/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/23/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/23/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/23/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/23/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/23/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/23/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	05/23/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97		%	1	05/23/23	JLI	70 - 130 %
% Dibromofluoromethane	88		%	1	05/23/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/23/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 02, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 02, 2023

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 679870 (mg/kg), QC Sample No: CO08930 2X (CO09181)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	112	108	3.6	108	118	8.8	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 678477 (mg/kg), QC Sample No: CO07579 (CO09165)

ICP Metals - Soil

Lead	BRL	0.33	11.7	13.1	11.3	101	100	1.0	95.7			75 - 125	35
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 678679 (mg/kg), QC Sample No: CO08930 (CO09163, CO09167, CO09168, CO09169, CO09170)

ICP Metals - Soil

Lead	BRL	0.33	18.5	16.8	9.60	109	110	0.9	103			75 - 125	35
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 678690 (mg/kg), QC Sample No: CO09186 (CO09172, CO09173, CO09174, CO09176, CO09178, CO09179, CO09181, CO09183)

ICP Metals - Soil

Antimony	BRL	3.3	<4.0	<3.7	NC	104	114	9.2	92.4			75 - 125	35
Arsenic	BRL	0.67	2.61	2.72	NC	109	110	0.9	96.8			75 - 125	35
Barium	BRL	0.33	42.0	35.4	17.1	108	114	5.4	102			75 - 125	35
Beryllium	BRL	0.27	0.46	0.45	NC	109	113	3.6	103			75 - 125	35
Cadmium	BRL	0.33	<0.40	<0.37	NC	105	110	4.7	99.2			75 - 125	35
Chromium	BRL	0.33	19.7	17.2	13.6	109	114	4.5	101			75 - 125	35
Copper	BRL	0.67	7.8	9.55	20.2	110	112	1.8	104			75 - 125	35
Lead	BRL	0.33	8.20	7.85	4.40	102	104	1.9	101			75 - 125	35
Nickel	BRL	0.33	11.0	13.6	21.1	108	114	5.4	102			75 - 125	35
Selenium	BRL	1.3	<1.6	<1.5	NC	107	112	4.6	95.3			75 - 125	35
Silver	BRL	0.33	<0.40	<0.37	NC	108	109	0.9	99.8			75 - 125	35
Thallium	BRL	3.0	<3.6	<3.4	NC	107	115	7.2	99.4			75 - 125	35
Vanadium	BRL	0.33	25.1	25.1	0	110	114	3.6	104			75 - 125	35
Zinc	BRL	0.67	23.9	23.9	0	110	111	0.9	104			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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QA/QC Report

June 02, 2023

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									

QA/QC Batch 679786 (mg/Kg), QC Sample No: CO08976 (CO09163, CO09164, CO09165, CO09166, CO09167, CO09168, CO09169, CO09170, CO09171, CO09172, CO09173, CO09174, CO09175, CO09176, CO09177)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	146	93	44.4	98	85	14.2	60 - 120	30	l,r
% COD (surr)	60	%	70	97	32.3	86	85	1.2	50 - 150	30	r
% Terphenyl (surr)	57	%	126	82	42.3	69	62	10.7	50 - 150	30	r

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 680112 (mg/Kg), QC Sample No: CO10881 (CO09183)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	105	155	38.5	71	102	35.8	60 - 120	30	l,r
% COD (surr)	93	%	99	163	48.9	62	70	12.1	50 - 150	30	l,r
% Terphenyl (surr)	87	%	79	131	49.5	69	76	9.7	50 - 150	30	r

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 679820 (mg/Kg), QC Sample No: CO13408 (CO09178, CO09179, CO09180, CO09181, CO09182)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	69	65	6.0	98	58	51.3	60 - 120	30	r
% COD (surr)	95	%	94	95	1.1	119	79	40.4	50 - 150	30	r
% Terphenyl (surr)	94	%	70	94	29.3	80	71	11.9	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 679357 (ug/Kg), QC Sample No: CO09678 2X (CO09181)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	105	102	2.9	89	99	10.6	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	97	95	2.1	84	92	9.1	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	97	%	108	110	1.8	96	104	8.0	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm)	97	%	106	108	1.9	92	98	6.3	30 - 150	30	
% TCMX (Surrogate Rec)	87	%	103	95	8.1	86	96	11.0	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm)	97	%	110	106	3.7	95	104	9.0	30 - 150	30	

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 679788 (ug/kg), QC Sample No: CO08090 (CO09181)											
Semivolatiles - Soil											
1,2,4,5-Tetrachlorobenzene	ND	230	72	82	13.0	67	64	4.6	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	73	77	5.3	63	63	0.0	40 - 140	30	
1,2-Dichlorobenzene	ND	180	64	62	3.2	55	57	3.6	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	92	90	2.2	81	84	3.6	40 - 140	30	
1,3-Dichlorobenzene	ND	230	63	61	3.2	53	54	1.9	40 - 140	30	
1,4-Dichlorobenzene	ND	230	65	61	6.3	54	54	0.0	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	63	62	1.6	60	58	3.4	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	92	88	4.4	28	31	10.2	40 - 140	30	m
2,4,6-Trichlorophenol	ND	130	96	97	1.0	27	34	23.0	30 - 130	30	m
2,4-Dichlorophenol	ND	130	86	94	8.9	34	31	9.2	30 - 130	30	
2,4-Dimethylphenol	ND	230	90	98	8.5	85	82	3.6	30 - 130	30	
2,4-Dinitrophenol	ND	230	36	18	66.7	32	38	17.1	30 - 130	30	l,r
2,4-Dinitrotoluene	ND	130	101	101	0.0	91	92	1.1	30 - 130	30	
2,6-Dinitrotoluene	ND	130	103	101	2.0	93	94	1.1	40 - 140	30	
2-Chloronaphthalene	ND	230	83	78	6.2	73	73	0.0	40 - 140	30	
2-Chlorophenol	ND	230	74	73	1.4	43	42	2.4	30 - 130	30	
2-Methylnaphthalene	ND	230	77	83	7.5	70	69	1.4	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	75	73	2.7	69	71	2.9	40 - 140	30	
2-Nitroaniline	ND	330	149	144	3.4	132	137	3.7	40 - 140	30	l
2-Nitrophenol	ND	230	118	122	3.3	27	27	0.0	40 - 140	30	m
3&4-Methylphenol (m&p-cresol)	ND	230	76	78	2.6	73	71	2.8	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	105	110	4.7	106	111	4.6	40 - 140	30	
3-Nitroaniline	ND	330	111	109	1.8	98	102	4.0	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	54	29	60.2	45	53	16.3	30 - 130	30	l,r
4-Bromophenyl phenyl ether	ND	230	86	88	2.3	84	82	2.4	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	95	109	13.7	77	75	2.6	30 - 130	30	
4-Chloroaniline	ND	230	96	102	6.1	84	82	2.4	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	88	90	2.2	82	82	0.0	40 - 140	30	
4-Nitroaniline	ND	230	119	113	5.2	105	107	1.9	40 - 140	30	
4-Nitrophenol	ND	230	109	108	0.9	44	50	12.8	30 - 130	30	
Acenaphthene	ND	230	80	80	0.0	73	73	0.0	30 - 130	30	
Acenaphthylene	ND	130	83	83	0.0	75	75	0.0	40 - 140	30	
Acetophenone	ND	230	70	71	1.4	67	68	1.5	40 - 140	30	
Aniline	ND	330	68	70	2.9	69	65	6.0	40 - 140	30	
Anthracene	ND	230	86	89	3.4	79	81	2.5	40 - 140	30	
Benz(a)anthracene	ND	230	82	87	5.9	79	82	3.7	40 - 140	30	
Benzidine	ND	330	93	94	1.1	78	75	3.9	40 - 140	30	
Benzo(a)pyrene	ND	130	94	99	5.2	89	92	3.3	40 - 140	30	
Benzo(b)fluoranthene	ND	160	80	82	2.5	76	78	2.6	40 - 140	30	
Benzo(ghi)perylene	ND	230	82	87	5.9	73	78	6.6	40 - 140	30	
Benzo(k)fluoranthene	ND	230	75	77	2.6	72	73	1.4	40 - 140	30	
Benzoic Acid	ND	670	<10	<10	NC	<10	<10	NC	30 - 130	30	l,m
Benzyl butyl phthalate	ND	230	97	100	3.0	96	94	2.1	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	72	78	8.0	67	65	3.0	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	56	55	1.8	50	50	0.0	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	99	104	4.9	98	99	1.0	40 - 140	30	
Carbazole	ND	230	84	86	2.4	78	79	1.3	40 - 140	30	
Chrysene	ND	230	78	83	6.2	74	76	2.7	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	87	93	6.7	79	84	6.1	40 - 140	30	
Dibenzofuran	ND	230	83	83	0.0	74	76	2.7	40 - 140	30	

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Diethyl phthalate	ND	230	97	95	2.1	89	88	1.1	40 - 140	30
Dimethylphthalate	ND	230	92	91	1.1	82	83	1.2	40 - 140	30
Di-n-butylphthalate	ND	670	100	105	4.9	95	97	2.1	40 - 140	30
Di-n-octylphthalate	ND	230	107	110	2.8	105	108	2.8	40 - 140	30
Fluoranthene	ND	230	83	85	2.4	75	80	6.5	40 - 140	30
Fluorene	ND	230	91	92	1.1	84	83	1.2	40 - 140	30
Hexachlorobenzene	ND	130	98	100	2.0	91	94	3.2	40 - 140	30
Hexachlorobutadiene	ND	230	83	86	3.6	69	71	2.9	40 - 140	30
Hexachlorocyclopentadiene	ND	230	58	71	20.2	15	<10	NC	40 - 140	30
Hexachloroethane	ND	130	71	69	2.9	56	58	3.5	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	90	95	5.4	78	84	7.4	40 - 140	30
Isophorone	ND	130	80	87	8.4	71	70	1.4	40 - 140	30
Naphthalene	ND	230	74	78	5.3	67	65	3.0	40 - 140	30
Nitrobenzene	ND	130	75	76	1.3	73	74	1.4	40 - 140	30
N-Nitrosodimethylamine	ND	230	62	60	3.3	51	52	1.9	40 - 140	30
N-Nitrosodi-n-propylamine	ND	130	81	84	3.6	80	77	3.8	40 - 140	30
N-Nitrosodiphenylamine	ND	130	86	83	3.6	77	80	3.8	40 - 140	30
Pentachloronitrobenzene	ND	230	108	113	4.5	100	99	1.0	40 - 140	30
Pentachlorophenol	ND	230	94	92	2.2	41	50	19.8	30 - 130	30
Phenanthrene	ND	130	80	83	3.7	75	78	3.9	40 - 140	30
Phenol	ND	230	75	78	3.9	64	65	1.6	30 - 130	30
Pyrene	ND	230	82	85	3.6	74	79	6.5	30 - 130	30
Pyridine	ND	230	56	49	13.3	40	42	4.9	40 - 140	30
% 2,4,6-Tribromophenol	111	%	106	109	2.8	38	42	10.0	30 - 130	30
% 2-Fluorobiphenyl	82	%	79	77	2.6	70	67	4.4	30 - 130	30
% 2-Fluorophenol	73	%	65	64	1.6	29	27	7.1	30 - 130	30
% Nitrobenzene-d5	84	%	79	77	2.6	74	72	2.7	30 - 130	30
% Phenol-d5	79	%	72	73	1.4	63	60	4.9	30 - 130	30
% Terphenyl-d14	81	%	75	77	2.6	66	69	4.4	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 679752 (ug/kg), QC Sample No: CO08511 (CO09163, CO09165, CO09167, CO09168)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	57	62	8.4	57	60	5.1	40 - 140	30
Acenaphthene	ND	230	61	65	6.3	59	65	9.7	30 - 130	30
Acenaphthylene	ND	230	59	63	6.6	58	64	9.8	40 - 140	30
Anthracene	ND	230	63	65	3.1	59	67	12.7	40 - 140	30
Benz(a)anthracene	ND	230	63	67	6.2	60	67	11.0	40 - 140	30
Benzo(a)pyrene	ND	230	75	79	5.2	72	81	11.8	40 - 140	30
Benzo(b)fluoranthene	ND	230	66	71	7.3	64	70	9.0	40 - 140	30
Benzo(ghi)perylene	ND	230	72	76	5.4	67	78	15.2	40 - 140	30
Benzo(k)fluoranthene	ND	230	61	65	6.3	58	66	12.9	40 - 140	30
Chrysene	ND	230	63	67	6.2	61	68	10.9	40 - 140	30
Dibenz(a,h)anthracene	ND	230	74	77	4.0	69	79	13.5	40 - 140	30
Fluoranthene	ND	230	65	69	6.0	63	70	10.5	40 - 140	30
Fluorene	ND	230	66	71	7.3	63	71	11.9	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	76	80	5.1	71	82	14.4	40 - 140	30
Naphthalene	ND	230	55	62	12.0	56	56	0.0	40 - 140	30
Phenanthrene	ND	230	60	64	6.5	58	67	14.4	40 - 140	30
Pyrene	ND	230	65	71	8.8	63	71	11.9	30 - 130	30
% 2-Fluorobiphenyl	63	%	57	61	6.8	56	61	8.5	30 - 130	30

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Nitrobenzene-d5	59	%	48	56	15.4	50	49	2.0	30 - 130	30
% Terphenyl-d14	68	%	61	65	6.3	59	66	11.2	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 679789 (ug/kg), QC Sample No: CO09398 (CO09169, CO09170, CO09172, CO09173, CO09174, CO09176, CO09178, CO09179, CO09183)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	67	65	3.0	71	72	1.4	40 - 140	30
Acenaphthene	ND	230	81	79	2.5	86	84	2.4	30 - 130	30
Acenaphthylene	ND	230	72	71	1.4	75	74	1.3	40 - 140	30
Anthracene	ND	230	75	72	4.1	78	75	3.9	40 - 140	30
Benz(a)anthracene	ND	230	79	75	5.2	83	80	3.7	40 - 140	30
Benzo(a)pyrene	ND	230	83	80	3.7	87	84	3.5	40 - 140	30
Benzo(b)fluoranthene	ND	230	74	71	4.1	77	76	1.3	40 - 140	30
Benzo(ghi)perylene	ND	230	61	61	0.0	62	63	1.6	40 - 140	30
Benzo(k)fluoranthene	ND	230	78	75	3.9	81	77	5.1	40 - 140	30
Chrysene	ND	230	86	82	4.8	90	85	5.7	40 - 140	30
Dibenz(a,h)anthracene	ND	230	66	65	1.5	68	68	0.0	40 - 140	30
Fluoranthene	ND	230	71	69	2.9	69	73	5.6	40 - 140	30
Fluorene	ND	230	77	76	1.3	81	81	0.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	62	62	0.0	66	67	1.5	40 - 140	30
Naphthalene	ND	230	67	65	3.0	71	77	8.1	40 - 140	30
Phenanthrene	ND	230	74	72	2.7	77	76	1.3	40 - 140	30
Pyrene	ND	230	80	77	3.8	82	84	2.4	30 - 130	30
% 2-Fluorobiphenyl	76	%	64	65	1.6	67	68	1.5	30 - 130	30
% Nitrobenzene-d5	93	%	75	74	1.3	79	87	9.6	30 - 130	30
% Terphenyl-d14	77	%	71	69	2.9	73	74	1.4	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 678877H (ug/kg), QC Sample No: CO08196 50X (CO09166 (50X) , CO09167 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	111	110	0.9	106	106	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	250	116	118	1.7	115	114	0.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	97	99	2.0	95	96	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	250	97	99	2.0	94	96	2.1	70 - 130	30
1,1-Dichloroethane	ND	250	110	111	0.9	110	109	0.9	70 - 130	30
1,1-Dichloroethene	ND	250	96	96	0.0	100	97	3.0	70 - 130	30
1,1-Dichloropropene	ND	250	115	116	0.9	115	112	2.6	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	92	93	1.1	77	79	2.6	70 - 130	30
1,2,3-Trichloropropane	ND	250	96	97	1.0	92	92	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	106	106	0.0	98	99	1.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	113	114	0.9	111	111	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	97	98	1.0	83	86	3.6	70 - 130	30
1,2-Dibromoethane	ND	250	103	102	1.0	100	99	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	250	103	103	0.0	99	99	0.0	70 - 130	30
1,2-Dichloroethane	ND	250	99	100	1.0	98	98	0.0	70 - 130	30
1,2-Dichloropropane	ND	250	105	107	1.9	106	105	0.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	116	116	0.0	114	113	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	250	105	106	0.9	103	103	0.0	70 - 130	30
1,3-Dichloropropane	ND	250	104	103	1.0	102	102	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
1,4-Dichlorobenzene	ND	250	102	103	1.0	100	99	1.0	70 - 130	30	
2,2-Dichloropropane	ND	250	126	128	1.6	108	108	0.0	70 - 130	30	
2-Chlorotoluene	ND	250	109	111	1.8	111	109	1.8	70 - 130	30	
2-Hexanone	ND	1300	94	96	2.1	89	87	2.3	70 - 130	30	
2-Isopropyltoluene	ND	250	114	114	0.0	112	112	0.0	70 - 130	30	
4-Chlorotoluene	ND	250	109	110	0.9	107	106	0.9	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	91	94	3.2	104	104	0.0	70 - 130	30	
Acetone	ND	500	87	90	3.4	91	89	2.2	70 - 130	30	
Acrylonitrile	ND	250	99	105	5.9	94	94	0.0	70 - 130	30	
Benzene	ND	250	106	107	0.9	106	105	0.9	70 - 130	30	
Bromobenzene	ND	250	107	109	1.9	106	107	0.9	70 - 130	30	
Bromochloromethane	ND	250	100	104	3.9	99	98	1.0	70 - 130	30	
Bromodichloromethane	ND	250	104	104	0.0	94	97	3.1	70 - 130	30	
Bromoform	ND	250	100	97	3.0	81	82	1.2	70 - 130	30	
Bromomethane	ND	250	88	96	8.7	86	102	17.0	70 - 130	30	
Carbon Disulfide	ND	250	90	90	0.0	89	89	0.0	70 - 130	30	
Carbon tetrachloride	ND	250	114	114	0.0	108	106	1.9	70 - 130	30	
Chlorobenzene	ND	250	105	104	1.0	105	104	1.0	70 - 130	30	
Chloroethane	ND	250	24	23	4.3	24	24	0.0	70 - 130	30	l,m
Chloroform	ND	250	106	107	0.9	105	104	1.0	70 - 130	30	
Chloromethane	ND	250	124	123	0.8	119	122	2.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	108	109	0.9	109	107	1.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	110	111	0.9	103	104	1.0	70 - 130	30	
Dibromochloromethane	ND	150	103	101	2.0	92	93	1.1	70 - 130	30	
Dibromomethane	ND	250	98	100	2.0	96	95	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	250	111	110	0.9	108	114	5.4	70 - 130	30	
Ethylbenzene	ND	250	110	109	0.9	109	108	0.9	70 - 130	30	
Hexachlorobutadiene	ND	250	112	115	2.6	122	126	3.2	70 - 130	30	
Isopropylbenzene	ND	250	114	114	0.0	113	111	1.8	70 - 130	30	
m&p-Xylene	ND	250	109	107	1.9	108	105	2.8	70 - 130	30	
Methyl ethyl ketone	ND	250	91	94	3.2	82	83	1.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	100	102	2.0	97	96	1.0	70 - 130	30	
Methylene chloride	ND	250	102	104	1.9	103	102	1.0	70 - 130	30	
Naphthalene	ND	250	97	99	2.0	84	88	4.7	70 - 130	30	
n-Butylbenzene	ND	250	120	121	0.8	120	120	0.0	70 - 130	30	
n-Propylbenzene	ND	250	113	114	0.9	112	110	1.8	70 - 130	30	
o-Xylene	ND	250	108	106	1.9	106	105	0.9	70 - 130	30	
p-Isopropyltoluene	ND	250	119	119	0.0	118	117	0.9	70 - 130	30	
sec-Butylbenzene	ND	250	118	118	0.0	117	117	0.0	70 - 130	30	
Styrene	ND	250	111	110	0.9	110	108	1.8	70 - 130	30	
tert-Butylbenzene	ND	250	116	116	0.0	114	114	0.0	70 - 130	30	
Tetrachloroethene	ND	250	106	106	0.0	103	102	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	92	96	4.3	86	86	0.0	70 - 130	30	
Toluene	ND	250	108	109	0.9	107	106	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	108	110	1.8	108	107	0.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	111	110	0.9	99	100	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	118	118	0.0	99	102	3.0	70 - 130	30	
Trichloroethene	ND	250	107	108	0.9	107	106	0.9	70 - 130	30	
Trichlorofluoromethane	ND	250	28	30	6.9	37	40	7.8	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	90	90	0.0	90	88	2.2	70 - 130	30	
Vinyl chloride	ND	250	120	123	2.5	121	123	1.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	99	100	1.0	99	98	1.0	70 - 130	30	
% Bromofluorobenzene	99	%	101	102	1.0	106	106	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blk		LCS %	LCS D %	LCS RPD	MS %	MS D %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% Dibromofluoromethane	97	%	96	99	3.1	96	97	1.0	70 - 130	30
% Toluene-d8	99	%	102	103	1.0	102	102	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 679300 (ug/kg), QC Sample No: CO09163 (CO09163, CO09164, CO09165, CO09168, CO09169, CO09170, CO09171, CO09172, CO09173, CO09175, CO09176, CO09178, CO09179, CO09185)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	107	105	1.9	104	104	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	104	103	1.0	101	100	1.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	96	97	1.0	97	94	3.1	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	102	99	3.0	102	98	4.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	91	104	13.3	104	103	1.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	108	105	2.8	102	101	1.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	110	106	3.7	106	103	2.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	100	101	1.0	98	90	8.5	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	97	98	1.0	99	94	5.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	99	99	0.0	98	87	11.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	103	102	1.0	102	97	5.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	97	98	1.0	94	90	4.3	70 - 130	30
1,2-Dibromoethane	ND	5.0	103	102	1.0	104	102	1.9	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	103	102	1.0	103	98	5.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	110	108	1.8	111	108	2.7	70 - 130	30
1,2-Dichloropropane	ND	5.0	101	100	1.0	102	100	2.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	104	103	1.0	103	99	4.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	102	102	0.0	102	96	6.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	104	102	1.9	105	103	1.9	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	102	101	1.0	101	95	6.1	70 - 130	30
2,2-Dichloropropane	ND	5.0	97	96	1.0	88	87	1.1	70 - 130	30
2-Chlorotoluene	ND	5.0	104	103	1.0	103	99	4.0	70 - 130	30
2-Hexanone	ND	25	87	88	1.1	87	84	3.5	70 - 130	30
2-Isopropyltoluene	ND	5.0	106	104	1.9	105	101	3.9	70 - 130	30
4-Chlorotoluene	ND	5.0	106	105	0.9	105	100	4.9	70 - 130	30
4-Methyl-2-pentanone	ND	25	97	96	1.0	96	90	6.5	70 - 130	30
Acetone	ND	10	85	86	1.2	111	143	25.2	70 - 130	30
Acrylonitrile	ND	5.0	67	76	12.6	83	78	6.2	70 - 130	30
Benzene	ND	1.0	104	102	1.9	102	100	2.0	70 - 130	30
Bromobenzene	ND	5.0	103	103	0.0	104	101	2.9	70 - 130	30
Bromochloromethane	ND	5.0	100	97	3.0	100	97	3.0	70 - 130	30
Bromodichloromethane	ND	5.0	103	103	0.0	104	103	1.0	70 - 130	30
Bromoform	ND	5.0	103	102	1.0	95	95	0.0	70 - 130	30
Bromomethane	ND	5.0	118	119	0.8	118	118	0.0	70 - 130	30
Carbon Disulfide	ND	5.0	102	99	3.0	94	94	0.0	70 - 130	30
Carbon tetrachloride	ND	5.0	98	97	1.0	94	92	2.2	70 - 130	30
Chlorobenzene	ND	5.0	105	104	1.0	104	102	1.9	70 - 130	30
Chloroethane	ND	5.0	110	114	3.6	110	114	3.6	70 - 130	30
Chloroform	ND	5.0	99	97	2.0	100	98	2.0	70 - 130	30
Chloromethane	ND	5.0	93	94	1.1	91	91	0.0	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	97	98	1.0	99	97	2.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	102	99	3.0	99	97	2.0	70 - 130	30
Dibromochloromethane	ND	3.0	101	99	2.0	99	98	1.0	70 - 130	30
Dibromomethane	ND	5.0	106	105	0.9	106	103	2.9	70 - 130	30

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QA/QC Data

SDG I.D.: GCO09163

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	BLK RL								
Dichlorodifluoromethane	ND	5.0	105	102	2.9	95	93	2.1	70 - 130	30
Ethylbenzene	ND	1.0	107	105	1.9	106	103	2.9	70 - 130	30
Hexachlorobutadiene	ND	5.0	110	102	7.5	101	96	5.1	70 - 130	30
Isopropylbenzene	ND	1.0	105	103	1.9	104	101	2.9	70 - 130	30
m&p-Xylene	ND	2.0	108	106	1.9	105	102	2.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	85	86	1.2	90	84	6.9	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	104	100	3.9	127	125	1.6	70 - 130	30
Methylene chloride	ND	5.0	99	95	4.1	131	128	2.3	70 - 130	30
Naphthalene	ND	5.0	101	100	1.0	95	88	7.7	70 - 130	30
n-Butylbenzene	ND	1.0	107	103	3.8	104	98	5.9	70 - 130	30
n-Propylbenzene	ND	1.0	105	103	1.9	103	100	3.0	70 - 130	30
o-Xylene	ND	2.0	105	102	2.9	103	101	2.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	109	105	3.7	106	101	4.8	70 - 130	30
sec-Butylbenzene	ND	1.0	109	106	2.8	106	103	2.9	70 - 130	30
Styrene	ND	5.0	104	102	1.9	102	100	2.0	70 - 130	30
tert-Butylbenzene	ND	1.0	108	107	0.9	106	103	2.9	70 - 130	30
Tetrachloroethene	ND	5.0	108	105	2.8	106	101	4.8	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	85	84	1.2	79	79	0.0	70 - 130	30
Toluene	ND	1.0	106	104	1.9	103	101	2.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	109	105	3.7	104	102	1.9	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	102	100	2.0	99	96	3.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	92	94	2.2	87	83	4.7	70 - 130	30
Trichloroethene	ND	5.0	106	106	0.0	104	101	2.9	70 - 130	30
Trichlorofluoromethane	ND	5.0	121	119	1.7	116	115	0.9	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	110	102	7.5	100	98	2.0	70 - 130	30
Vinyl chloride	ND	5.0	103	101	2.0	98	98	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	100	100	0.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	98	%	101	100	1.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	91	%	94	92	2.2	92	91	1.1	70 - 130	30
% Toluene-d8	99	%	101	100	1.0	100	99	1.0	70 - 130	30

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Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 679300H (ug/kg), QC Sample No: CO09163 50X (CO09174 (50X) , CO09177 (50X) , CO09182 (50X) , CO09183 (50X) , CO09184 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	118	119	0.8	92	109	16.9	70 - 130	30
1,1,1-Trichloroethane	ND	250	111	113	1.8	91	106	15.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	112	112	0.0	94	105	11.1	70 - 130	30
1,1,2-Trichloroethane	ND	250	114	113	0.9	93	107	14.0	70 - 130	30
1,1-Dichloroethane	ND	250	113	114	0.9	94	107	12.9	70 - 130	30
1,1-Dichloroethene	ND	250	102	106	3.8	86	104	18.9	70 - 130	30
1,1-Dichloropropene	ND	250	120	121	0.8	100	114	13.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	119	123	3.3	96	115	18.0	70 - 130	30
1,2,3-Trichloropropane	ND	250	114	113	0.9	94	108	13.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	122	128	4.8	100	118	16.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	117	119	1.7	97	113	15.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	110	109	0.9	84	97	14.4	70 - 130	30
1,2-Dibromoethane	ND	250	114	116	1.7	97	110	12.6	70 - 130	30
1,2-Dichlorobenzene	ND	250	119	120	0.8	98	114	15.1	70 - 130	30
1,2-Dichloroethane	ND	250	121	122	0.8	102	116	12.8	70 - 130	30
1,2-Dichloropropane	ND	250	112	113	0.9	94	108	13.9	70 - 130	30

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3,5-Trimethylbenzene	ND	250	118	119	0.8	98	113	14.2	70 - 130	30	
1,3-Dichlorobenzene	ND	250	120	124	3.3	100	117	15.7	70 - 130	30	
1,3-Dichloropropane	ND	250	116	116	0.0	97	111	13.5	70 - 130	30	
1,4-Dichlorobenzene	ND	250	120	123	2.5	101	116	13.8	70 - 130	30	
2,2-Dichloropropane	ND	250	103	104	1.0	82	95	14.7	70 - 130	30	
2-Chlorotoluene	ND	250	119	121	1.7	99	114	14.1	70 - 130	30	
2-Hexanone	ND	1300	102	101	1.0	85	94	10.1	70 - 130	30	
2-Isopropyltoluene	ND	250	118	120	1.7	98	114	15.1	70 - 130	30	
4-Chlorotoluene	ND	250	122	125	2.4	102	116	12.8	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	110	110	0.0	91	102	11.4	70 - 130	30	
Acetone	ND	500	84	82	2.4	70	80	13.3	70 - 130	30	
Acrylonitrile	ND	250	85	87	2.3	80	87	8.4	70 - 130	30	
Benzene	ND	250	113	114	0.9	95	108	12.8	70 - 130	30	
Bromobenzene	ND	250	117	119	1.7	98	114	15.1	70 - 130	30	
Bromochloromethane	ND	250	110	110	0.0	91	104	13.3	70 - 130	30	
Bromodichloromethane	ND	250	115	115	0.0	91	106	15.2	70 - 130	30	
Bromoform	ND	250	114	115	0.9	80	97	19.2	70 - 130	30	
Bromomethane	ND	250	76	78	2.6	62	75	19.0	70 - 130	30	m
Carbon Disulfide	ND	250	96	100	4.1	78	97	21.7	70 - 130	30	
Carbon tetrachloride	ND	250	105	106	0.9	80	96	18.2	70 - 130	30	
Chlorobenzene	ND	250	117	120	2.5	98	114	15.1	70 - 130	30	
Chloroethane	ND	250	24	26	8.0	21	25	17.4	70 - 130	30	l,m
Chloroform	ND	250	106	107	0.9	89	102	13.6	70 - 130	30	
Chloromethane	ND	250	101	103	2.0	85	96	12.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	104	105	1.0	93	100	7.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	112	113	0.9	89	105	16.5	70 - 130	30	
Dibromochloromethane	ND	150	110	112	1.8	84	101	18.4	70 - 130	30	
Dibromomethane	ND	250	119	118	0.8	97	112	14.4	70 - 130	30	
Dichlorodifluoromethane	ND	250	114	116	1.7	92	105	13.2	70 - 130	30	
Ethylbenzene	ND	250	120	122	1.7	98	114	15.1	70 - 130	30	
Hexachlorobutadiene	ND	250	126	129	2.4	104	122	15.9	70 - 130	30	
Isopropylbenzene	ND	250	118	120	1.7	98	114	15.1	70 - 130	30	
m&p-Xylene	ND	250	121	124	2.4	100	116	14.8	70 - 130	30	
Methyl ethyl ketone	ND	250	104	104	0.0	79	97	20.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	112	112	0.0	95	106	10.9	70 - 130	30	
Methylene chloride	ND	250	107	108	0.9	94	105	11.1	70 - 130	30	
Naphthalene	ND	250	115	117	1.7	94	109	14.8	70 - 130	30	
n-Butylbenzene	ND	250	125	129	3.1	104	123	16.7	70 - 130	30	
n-Propylbenzene	ND	250	120	122	1.7	100	115	14.0	70 - 130	30	
o-Xylene	ND	250	116	118	1.7	96	112	15.4	70 - 130	30	
p-Isopropyltoluene	ND	250	123	126	2.4	102	120	16.2	70 - 130	30	
sec-Butylbenzene	ND	250	122	124	1.6	102	118	14.5	70 - 130	30	
Styrene	ND	250	117	120	2.5	96	112	15.4	70 - 130	30	
tert-Butylbenzene	ND	250	120	121	0.8	99	115	15.0	70 - 130	30	
Tetrachloroethene	ND	250	123	126	2.4	102	118	14.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	97	96	1.0	82	90	9.3	70 - 130	30	
Toluene	ND	250	118	118	0.0	97	112	14.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	115	116	0.9	96	109	12.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	113	114	0.9	88	104	16.7	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	108	108	0.0	80	93	15.0	70 - 130	30	
Trichloroethene	ND	250	117	119	1.7	98	113	14.2	70 - 130	30	
Trichlorofluoromethane	ND	250	20	21	4.9	16	20	22.2	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	250	109	112	2.7	90	110	20.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCO09163

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Vinyl chloride	ND	250	103	104	1.0	95	106	10.9	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	99	97	2.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	98	%	100	100	0.0	99	100	1.0	70 - 130	30
% Dibromofluoromethane	86	%	91	90	1.1	90	90	0.0	70 - 130	30
% Toluene-d8	99	%	101	100	1.0	99	99	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 679301 (ug/kg), QC Sample No: CO11021 (CO09180, CO09181)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	116	115	0.9	87	98	11.9	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	108	110	1.8	87	102	15.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	105	0.9	<10	<10	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	5.0	109	106	2.8	44	43	2.3	70 - 130	30	m
1,1-Dichloroethane	ND	5.0	110	109	0.9	91	105	14.3	70 - 130	30	
1,1-Dichloroethene	ND	5.0	113	110	2.7	127	155	19.9	70 - 130	30	m
1,1-Dichloropropene	ND	5.0	115	112	2.6	91	104	13.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	104	106	1.9	77	80	3.8	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	105	106	0.9	81	90	10.5	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	101	103	2.0	81	80	1.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	107	107	0.0	80	90	11.8	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	105	106	0.9	40	38	5.1	70 - 130	30	m
1,2-Dibromoethane	ND	5.0	110	108	1.8	89	103	14.6	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	103	103	0.0	80	89	10.7	70 - 130	30	
1,2-Dichloroethane	ND	5.0	100	99	1.0	86	96	11.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	108	105	2.8	89	101	12.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	109	109	0.0	82	92	11.5	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	103	103	0.0	79	87	9.6	70 - 130	30	
1,3-Dichloropropane	ND	5.0	110	109	0.9	91	104	13.3	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	103	103	0.0	80	86	7.2	70 - 130	30	
2,2-Dichloropropane	ND	5.0	115	111	3.5	78	98	22.7	70 - 130	30	
2-Chlorotoluene	ND	5.0	110	109	0.9	83	95	13.5	70 - 130	30	
2-Hexanone	ND	25	104	101	2.9	86	101	16.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	109	109	0.0	76	86	12.3	70 - 130	30	
4-Chlorotoluene	ND	5.0	108	108	0.0	85	94	10.1	70 - 130	30	
4-Methyl-2-pentanone	ND	25	104	102	1.9	91	103	12.4	70 - 130	30	
Acetone	ND	10	88	87	1.1	74	115	43.4	70 - 130	30	r
Acrylonitrile	ND	5.0	106	102	3.8	83	95	13.5	70 - 130	30	
Benzene	ND	1.0	111	109	1.8	91	102	11.4	70 - 130	30	
Bromobenzene	ND	5.0	106	107	0.9	85	95	11.1	70 - 130	30	
Bromochloromethane	ND	5.0	105	105	0.0	91	101	10.4	70 - 130	30	
Bromodichloromethane	ND	5.0	107	107	0.0	75	82	8.9	70 - 130	30	
Bromoform	ND	5.0	111	108	2.7	86	101	16.0	70 - 130	30	
Bromomethane	ND	5.0	107	106	0.9	80	94	16.1	70 - 130	30	
Carbon Disulfide	ND	5.0	105	103	1.9	72	85	16.6	70 - 130	30	
Carbon tetrachloride	ND	5.0	117	115	1.7	90	110	20.0	70 - 130	30	
Chlorobenzene	ND	5.0	107	106	0.9	86	98	13.0	70 - 130	30	
Chloroethane	ND	5.0	108	106	1.9	85	100	16.2	70 - 130	30	
Chloroform	ND	5.0	106	107	0.9	85	100	16.2	70 - 130	30	
Chloromethane	ND	5.0	104	104	0.0	84	97	14.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	111	112	0.9	95	106	10.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	115	114	0.9	91	104	13.3	70 - 130	30	

QA/QC Data

SDG I.D.: GCO09163

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Dibromochloromethane	ND	3.0	113	111	1.8	82	91	10.4	70 - 130	30
Dibromomethane	ND	5.0	105	105	0.0	89	100	11.6	70 - 130	30
Dichlorodifluoromethane	ND	5.0	100	97	3.0	74	86	15.0	70 - 130	30
Ethylbenzene	ND	1.0	107	106	0.9	83	97	15.6	70 - 130	30
Hexachlorobutadiene	ND	5.0	102	102	0.0	47	54	13.9	70 - 130	30 m
Isopropylbenzene	ND	1.0	113	112	0.9	86	98	13.0	70 - 130	30
m&p-Xylene	ND	2.0	111	109	1.8	87	99	12.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	100	96	4.1	83	96	14.5	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	101	101	0.0	82	96	15.7	70 - 130	30
Methylene chloride	ND	5.0	102	102	0.0	92	103	11.3	70 - 130	30
Naphthalene	ND	5.0	116	114	1.7	94	107	12.9	70 - 130	30
n-Butylbenzene	ND	1.0	110	111	0.9	72	81	11.8	70 - 130	30
n-Propylbenzene	ND	1.0	109	109	0.0	81	91	11.6	70 - 130	30
o-Xylene	ND	2.0	111	109	1.8	87	100	13.9	70 - 130	30
p-Isopropyltoluene	ND	1.0	111	110	0.9	77	87	12.2	70 - 130	30
sec-Butylbenzene	ND	1.0	112	112	0.0	76	86	12.3	70 - 130	30
Styrene	ND	5.0	99	98	1.0	79	90	13.0	70 - 130	30
tert-Butylbenzene	ND	1.0	112	112	0.0	79	91	14.1	70 - 130	30
Tetrachloroethene	ND	5.0	105	105	0.0	84	95	12.3	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	105	100	4.9	88	101	13.8	70 - 130	30
Toluene	ND	1.0	108	107	0.9	88	100	12.8	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	114	109	4.5	86	105	19.9	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	118	117	0.9	87	102	15.9	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	128	128	0.0	97	114	16.1	70 - 130	30
Trichloroethene	ND	5.0	108	105	2.8	159	180	12.4	70 - 130	30 m
Trichlorofluoromethane	ND	5.0	107	105	1.9	82	98	17.8	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	99	94	5.2	73	89	19.8	70 - 130	30
Vinyl chloride	ND	5.0	114	111	2.7	88	105	17.6	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	100	99	1.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	95	%	100	99	1.0	99	100	1.0	70 - 130	30
% Dibromofluoromethane	96	%	100	99	1.0	61	58	5.0	70 - 130	30 m
% Toluene-d8	100	%	102	102	0.0	103	102	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

June 02, 2023

Friday, June 02, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO09163 - TIGHE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO09166	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	42	7	7	ug/Kg
CO09166	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	84	40	40	ug/Kg
CO09167	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	38	7	7	ug/Kg
CO09167	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	77	40	40	ug/Kg
CO09174	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	41	7	7	ug/Kg
CO09174	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	82	40	40	ug/Kg
CO09177	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	44	7	7	ug/Kg
CO09177	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	87	40	40	ug/Kg
CO09181	\$8270-SMR	Dibenz(a,h)anthracene	CT / RSR DEC I/C (mg/kg) / APS Organics	1600	250	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	10000	2500	7800	7800	ug/Kg
CO09181	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	12000	2500	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	16000	2500	7800	7800	ug/Kg
CO09181	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	6700	250	1000	1000	ug/Kg
CO09181	\$8270-SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	1600	250	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	12000	2500	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	10000	2500	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	16000	2500	1000	1000	ug/Kg
CO09181	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	12000	2500	1000	1000	ug/Kg
CO09181	\$8270-SMR	Carbazole	CT / RSR GB (mg/kg) / APS Organics	1300	350	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	6200	250	1000	1000	ug/Kg
CO09181	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	6700	250	1000	1000	ug/Kg
CO09181	\$8270-SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	1600	250	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	10000	2500	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	12000	2500	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4900	250	1000	1000	ug/Kg
CO09181	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	16000	2500	1000	1000	ug/Kg
CO09181	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	620	260	500	500	mg/Kg
CO09182	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC RES (mg/kg) / APS Organics	ND	94	90	90	ug/Kg
CO09182	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	47	7	7	ug/Kg
CO09182	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	94	40	40	ug/Kg
CO09183	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR DEC RES (mg/kg) / APS Organics	ND	91	90	90	ug/Kg
CO09183	\$8260MAR	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	46	7	7	ug/Kg
CO09183	\$8260MAR	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	91	40	40	ug/Kg
CO09184	\$8260MER	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	25	7	7	ug/Kg
CO09184	\$8260MER	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	50	40	40	ug/Kg

Friday, June 02, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO09163 - TIGHE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO09163-CO09185

Sampling Date(s): 5/18/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>YPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Friday, June 02, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 02, 2023

SDG I.D.: GCO09163

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Not all requested reporting levels were achieved due to the presence of target and non target compounds. Please refer to the Sample Criteria Exceedances section of this report.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 679786 (Samples: CO09163, CO09164, CO09165, CO09166, CO09167, CO09168, CO09169, CO09170, CO09171, CO09172, CO09173, CO09174, CO09175, CO09176, CO09177): -----

The LCS recovery is above the upper range for analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Ext. Petroleum H.C. (C9-C36))

The LCS/LCSD RPD exceeds the method criteria, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Ext. Petroleum H.C. (C9-C36), % COD (surr), % Terphenyl (surr))

QC Batch 680112 (Samples: CO09183): -----

One or more surrogates is outside of criteria. (% COD (surr))

The LCSD recovery is above the upper range for analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Ext. Petroleum H.C. (C9-C36))

The LCS/LCSD RPD exceeds the method criteria, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Ext. Petroleum H.C. (C9-C36), % COD (surr), % Terphenyl (surr))

Instrument:

AU-FID1 06/01/23-1 Jeff Bucko, Chemist 06/01/23

CO09183 (1X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (601A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 05/30/23-1 Jeff Bucko, Chemist 05/30/23

CO09178 (1X), CO09179 (1X), CO09180 (1X), CO09182 (1X)

The initial calibration (ETPH524I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (530A008) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 05/30/23-1 Jeff Bucko, Chemist 05/30/23

CO09181 (5X)



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ETPH Narration

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (530A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO09181

Preceding CC 530A066 - % COD (surr) -38%L (30%)

Succeeding CC 530A073 - None.

Samples: CO09181

Preceding CC 530A028 - % Terphenyl (surr) 36%H (30%)

Succeeding CC 530A041 - None.

AU-XL2 05/30/23-1

Jeff Bucko, Chemist 05/30/23

CO09163 (1X), CO09164 (1X), CO09165 (1X), CO09166 (1X), CO09167 (1X), CO09168 (1X), CO09169 (1X), CO09170 (1X), CO09171 (1X), CO09172 (1X), CO09173 (1X), CO09174 (1X), CO09175 (1X), CO09176 (1X), CO09177 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (530A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 679786 (CO08976)

CO09163, CO09164, CO09165, CO09166, CO09167, CO09168, CO09169, CO09170, CO09171, CO09172, CO09173, CO09174, CO09175, CO09176, CO09177

All LCS recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(146%)

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: % COD (surr)(32.3%), % Terphenyl (surr)(42.3%), Ext. Petroleum H.C. (C9-C36)(44.4%)

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 679820 (CO13408)

CO09178, CO09179, CO09180, CO09181, CO09182

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 680112 (CO10881)

CO09183

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: % COD (surr)(163%), Ext. Petroleum H.C. (C9-C36)(155%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: % COD (surr)(48.9%), % Terphenyl (surr)(49.5%), Ext. Petroleum H.C. (C9-C36)(38.5%)

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration



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Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/30/23 20:39 Alexander Latka, Chemist 05/30/23

CO09181

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 679870 (CO08930)

CO09181

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 05/26/23 09:07 Cindy Pearce, Chemist 05/26/23

CO09165

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 05/30/23 09:30 Tina Hall, Chemist 05/30/23

CO09172, CO09173, CO09174, CO09176, CO09178, CO09179, CO09181, CO09183

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/24/23 09:15 Tina Hall, Chemist 05/24/23



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ICP Metals Narration

CO09163, CO09167, CO09168, CO09169, CO09170

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 678477 (CO07579)

CO09165

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 678679 (CO08930)

CO09163, CO09167, CO09168, CO09169, CO09170

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 678690 (CO09186)

CO09172, CO09173, CO09174, CO09176, CO09178, CO09179, CO09181, CO09183

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD7 05/26/23-1

Saadia Chudary, Chemist 05/26/23

CO09181 (10X)

The initial calibration (PC0509AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0509BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO09181

Preceding CC 526B060 - PCB 1260 16%H (%)

Succeeding CC 526B068 - None.

QC (Batch Specific):

Batch 679357 (CO09678)

CO09181

All LCS recoveries were within 40 - 140 with the following exceptions: None.



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PCB Narration

All LCS/D recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 679788 (Samples: CO09181): -----

The LCS/LCSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (2-Nitroaniline)

The LCSD recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol)

The QC recoveries for one analyte are below the method criteria. A low bias is likely. (Benzoic Acid)

Instrument:

CHEM19 05/29/23-1 Matt Richard, Chemist 05/29/23

CO09169 (1X), CO09170 (1X), CO09172 (1X), CO09173 (1X), CO09174 (1X), CO09176 (1X), CO09178 (1X), CO09179 (1X), CO09183 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0519):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Fluoranthene 21% (20%)

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0529_03-19_BN_0519):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM28 05/29/23-1 Matt Richard, Chemist 05/29/23

CO09181 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_SPLIT_0523):

100% of target compounds met criteria.



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SVOA Narration

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.056 (0.1), Hexachlorobenzene 0.082 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0529_31-28_SPLIT_0523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Benzoic acid 31%H (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.064 (0.1), Hexachlorobenzene 0.081 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM36 05/26/23-2

Matt Richard, Chemist 05/26/23

CO09163 (1X), CO09165 (1X), CO09167 (1X), CO09168 (1X)

Initial Calibration Evaluation (CHEM36/36_BN_0523):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM36/0526_23-36_BN_0523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM36 05/30/23-1

Keith Aloisa, Chemist 05/30/23

CO09181 (10X)

Initial Calibration Evaluation (CHEM36/36_SPLIT_0523):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM36/0530_08-36_SPLIT_0523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 679752 (CO08511)

CO09163, CO09165, CO09167, CO09168



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SDG I.D.: GCO09163

SVOA Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 679788 (CO08090)

CO09181

All LCS recoveries were within 40 - 140 with the following exceptions: 2-Nitroaniline(149%), Benzoic Acid(<10%)
All LCSD recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(18%), 2-Nitroaniline(144%), 4,6-Dinitro-2-methylphenol(29%), Benzoic Acid(<10%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(66.7%), 4,6-Dinitro-2-methylphenol(60.2%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 679789 (CO09398)

CO09169, CO09170, CO09172, CO09173, CO09174, CO09176, CO09178, CO09179, CO09183

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 678877H: -----

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 679300 (Samples: CO09163, CO09164, CO09165, CO09168, CO09169, CO09170, CO09171, CO09172, CO09173, CO09175, CO09176, CO09178, CO09179, CO09185): -----

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Acrylonitrile)

The MS or the MSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Acetone, Methylene chloride)

QC Batch 679300H: -----

The LCS/LCSD site MSD recovery is acceptable. One analyte in the site MS is below the lower range. No significant bias is suspected. (Bromomethane)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)



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VOA Narration

Instrument:

CHEM16 05/21/23-1 Harry Mullin, Chemist 05/21/23

CO09166 (50X), CO09167 (50X)

Chem16 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM16/VT-H050323):

96% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Chloroethane 23% (20%), trans-1,4-dichloro-2-butene 23% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM16/0521H02-VT-H050323):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 05/23/23-1 Jane Li, Chemist 05/23/23

CO09163 (1X, 50X), CO09164 (1X), CO09165 (1X), CO09168 (1X), CO09169 (1X), CO09170 (1X), CO09171 (1X), CO09172 (1X), CO09173 (1X), CO09174 (50X), CO09175 (1X), CO09176 (1X), CO09177 (50X), CO09178 (1X), CO09179 (1X), CO09182 (50X), CO09183 (50X), CO09184 (50X), CO09185 (1X)

Initial Calibration Evaluation (CHEM26/VT-052223):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 24% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1),

Tetrachloroethene 0.172 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0523_02-VT-052223):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 05/23/23-1 Jane Li, Chemist 05/23/23

CO09180 (1X), CO09181 (1X)

Initial Calibration Evaluation (CHEM31/VT-L051023):

95% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 22% (20%), Naphthalene 23% (20%), trans-1,3-Dichloropropene 25% (20%), trans-1,4-dichloro-2-butene 37% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.094 (0.1), Bromoform 0.098 (0.1), Tetrachloroethene 0.144 (0.2), Trichloroethene 0.188 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.



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VOA Narration

Continuing Calibration Verification (CHEM31/0523_02-VT-L051023):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 678877H (CO08196) CHEM16 5/21/2023-1

CO09166(50X), CO09167(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(24%), Trichlorofluoromethane(28%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(23%), Trichlorofluoromethane(30%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 679301 (CO11021) CHEM31 5/23/2023-1

CO09180(1X), CO09181(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QC (Site Specific):

Batch 679300 (CO09163) CHEM26 5/23/2023-1

CO09163(1X), CO09164(1X), CO09165(1X), CO09168(1X), CO09169(1X), CO09170(1X), CO09171(1X), CO09172(1X), CO09173(1X),
CO09175(1X), CO09176(1X), CO09178(1X), CO09179(1X), CO09185(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acrylonitrile(67%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: Methylene chloride(131%)

All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(143%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 679300H (CO09163) CHEM26 5/23/2023-1

CO09174(50X), CO09177(50X), CO09182(50X), CO09183(50X), CO09184(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(24%), Trichlorofluoromethane(20%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(26%), Trichlorofluoromethane(21%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: Bromomethane(62%), Chloroethane(21%),

Trichlorofluoromethane(16%)

All MSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(20%)



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VOA Narration

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 2.2C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp: 22 Cooler: Yes No
 Coolant: IPK ICE No
 Pg 1 of 2

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

Project: Brainard Airport
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: Don Mornik Date: 5/18/23
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X= _____ (Other)

Analysis Request	CT/ETPH (DPH ME/THOD)	VOCs (EPA 8260/5035)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total PCRA 8 Metals	Total RSR 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials (1) methanol (2) H2O	GL Soil container (8) oz	40 ml VOA Vial (1) As is (1) HCl	GL Amber 1000ml (1) As is (1) H2SO4	PL H2SO4 (1) 250ml (1) 500ml (1) 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle with/without	Bacteria Bottle as is	Hold
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PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
09163	B-61 (10-12')	S	5/18/23	1226
09164	B-62 (10-11')			1132
09165	B-66 (9-16')			0805
09166	B-67 (7-9')			0818
09167	B-68 (8-10')			0840
09168	B-69 (8-10')			0850
09169	B-70 (8-10')			0905
09170	B-71 (8-10')			1238
09171	B-72 (8-10')			1250
09172	B-73 (8-10')			1152
09173	B-74 (8-10')			1305
09174	B-75 (5-7')			1405

Relinquished by: Don Mornik Accepted by: [Signature]
 Date: 5/18/23 Time: 1515
5/18 1542
5/18/23 1545
 Comments, Special Requirements or Regulations: _____
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other _____

- RI**
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives
- CT**
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other
- MA**
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted. *SURCHARGE APPLIES
 State where samples were collected: CT



CHAIN OF CUSTODY RECORD

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2.2 Coolant: IPK ICE Ye No No

Temp 18.5°C Pg 02 of 02

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Customer: Tighe & Bond, Inc.
 Address: 213 Court Street, Suite 1100
Middletown, CT

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 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
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 QUOTE # DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/18/23
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

Analysis Request	CT/ETPH (DPH METHOD)	VOCs (EPA 8260/5035)	1,4 Dioxane	SVOCs (EPA 8270)	PAHs (EPA 8270)	Total PCRA 8 Metals	Total RSR 15 Metals	Total Lead	Total Arsenic	PCBs (8082)	Total Pesticides (8081)	Soil VOA Vials [1 methanol [2] H2O] oz	GL Soil container (8) oz	40 ml VOA Vial [1 As is [1 HCl] 100ml] 100ml	GL Amber 1000ml [1 As is [1 H2SO4] 1000ml] 1000ml	PL As is [1250ml] 1500ml [1500ml] 1500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria bottle witho	Bacteria Bottle as is	Hold
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PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
09175	B-76 (8-10')	S	5/18/23	1320
09176	B-77 (10-12')			0930
09177	B-78 (9-10')			0955
09178	B-79 (11-12')			1015
09179	B-80 (10-11')			1035
09180	B-81 (10-11')			1114
09181	B-108 (1-2')			1425
09182	DUP-10	↓	↓	0819
09183	DUP-11	S	↓	1406
09184	TB-H		↓	
09185	TB-LL	S	5/18/23	

Relinquished by: [Signature] Accepted by: [Signature] Date: 5/18/23 Time: 1515
 Date: 5/18 Time: 1542
 Date: 5/18/23
 Comments, Special Requirements or Regulations: _____
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other _____
 * SURCHARGE APPLIES

RI (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GA Leachability
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA
 MCP Certification
 GW-1 MWRA eSMART
 GW-2 S-1 10% CALC
 GW-3
 S-1 GW-1 S-1 GW-2 S-1 GW-3
 S-2 GW-1 S-2 GW-2 S-2 GW-3
 S-3 GW-1 S-3 GW-2 S-3 GW-3
 SW Protection

State where samples were collected: CT

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

* SURCHARGE APPLIES

*MSMSD are considered site samples and will be billed as such in accordance with the prices quoted.



Wednesday, June 28, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO10275
Sample ID#s: CO10275 - CO10285

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 28, 2023

SDG I.D.: GCO10275

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-118 (0-2`)	CO10275	SOIL
B-120 (0-2`)	CO10276	SOIL
B-121 (9-10`)	CO10277	SOIL
B-122 (0-2`)	CO10278	SOIL
B-123 (0-2`)	CO10279	SOIL
B-124 (0-2`)	CO10280	SOIL
B-125 (0-2`)	CO10281	SOIL
B-127 (0-2`)	CO10282	SOIL
DUP-12	CO10283	SOIL
TB HL	CO10284	SOIL
TB LL	CO10285	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

05/19/23
 05/19/23

Time

10:26
 15:31

Laboratory Data

SDG ID: GCO10275
 Phoenix ID: CO10275

Project ID: BRAINARD AIRPORT
 Client ID: B-118 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	05/24/23	TH	SW6010D
Arsenic	2.36	0.68	mg/Kg	1	05/24/23	TH	SW6010D
Barium	62.6	0.34	mg/Kg	1	05/24/23	TH	SW6010D
Cadmium	0.90	0.34	mg/Kg	1	05/24/23	TH	SW6010D
Chromium	13.2	0.34	mg/Kg	1	05/24/23	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/30/23	AL1	SW7471B
Lead	22.3	0.34	mg/Kg	1	05/24/23	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	91		%		05/19/23	CV	SW846-%Solid

Field Extraction	Completed				05/19/23		SW5035A
Mercury Digestion	Completed				05/30/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/30/23	U/M	SW3546
Soil Extraction for PCB	Completed				05/31/23	C/Y	SW3546
Soil Extraction for Pesticide	Completed				05/31/23	C/Y	SW3546
Soil Extraction for SVOA PAH	Completed				05/30/23	C/F	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	770	270	mg/Kg	5	06/01/23	JRB	CTETPH
Identification	**		mg/Kg	5	06/01/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	90		%	5	06/01/23	JRB	50 - 150 %
% Terphenyl (surr)	74		%	5	06/01/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	360	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	06/02/23	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	360	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	06/02/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	114		%	10	06/02/23	SC	30 - 150 %
% DCBP (Confirmation)	120		%	10	06/02/23	SC	30 - 150 %
% TCMX	110		%	10	06/02/23	SC	30 - 150 %
% TCMX (Confirmation)	104		%	10	06/02/23	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
4,4' -DDE	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
4,4' -DDT	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Aldrin	ND	10	ug/Kg	2	06/03/23	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Chlordane	100	36	ug/Kg	2	06/03/23	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Dieldrin	25	3.6	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	06/03/23	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	06/03/23	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	06/03/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	06/03/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	73		%	2	06/03/23	AW	30 - 150 %
% DCBP (Confirmation)	74		%	2	06/03/23	AW	30 - 150 %
% TCMX	75		%	2	06/03/23	AW	30 - 150 %
% TCMX (Confirmation)	76		%	2	06/03/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.48	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
2-Hexanone	ND	24	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
4-Chlorotoluene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	240	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
Bromochloromethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	2.9	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
m&p-Xylene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.7	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	9.7	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
o-Xylene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
Styrene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	310	ug/Kg	50	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.7	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	630	ug/Kg	50	05/24/23	JLI	SW8260C
Trichloroethene	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.7	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	4.8	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	82		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	92		%	1	05/25/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	05/24/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	86		%	50	05/24/23	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	05/24/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Acenaphthene	ND	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Acenaphthylene	ND	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Anthracene	ND	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Benz(a)anthracene	5000	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(a)pyrene	7900	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(b)fluoranthene	9200	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(ghi)perylene	6800	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(k)fluoranthene	3300	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Chrysene	6100	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Dibenz(a,h)anthracene	1400	1000	ug/Kg	10	05/31/23	KCA	SW8270D
Fluoranthene	8400	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Fluorene	ND	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	6300	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Naphthalene	ND	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Phenanthrene	ND	2500	ug/Kg	10	05/31/23	KCA	SW8270D
Pyrene	8500	2500	ug/Kg	10	05/31/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl (10x)	59		%	10	05/31/23	KCA	30 - 130 %
% Nitrobenzene-d5 (10x)	59		%	10	05/31/23	KCA	30 - 130 %
% Terphenyl-d14 (10x)	65		%	10	05/31/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

Semi-Volatile Comment:

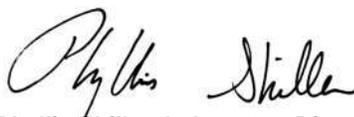
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

05/19/23
 05/19/23

Time

10:48
 15:31

Laboratory Data

SDG ID: GCO10275
 Phoenix ID: CO10276

Project ID: BRAINARD AIRPORT
 Client ID: B-120 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	05/24/23	TH	SW6010D
Arsenic	6.89	0.70	mg/Kg	1	05/24/23	TH	SW6010D
Barium	69.9	0.35	mg/Kg	1	05/24/23	TH	SW6010D
Cadmium	1.21	0.35	mg/Kg	1	05/24/23	TH	SW6010D
Chromium	18.8	0.35	mg/Kg	1	05/24/23	TH	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	05/30/23	AL1	SW7471B
Lead	17.3	0.35	mg/Kg	1	05/24/23	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	87		%		05/19/23	CV	SW846-%Solid
Field Extraction	Completed				05/19/23		SW5035A
Mercury Digestion	Completed				05/30/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/30/23	U/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/30/23	C/F	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	1200	280	mg/Kg	5	06/01/23	JRB	CTETPH
Identification	**		mg/Kg	5	06/01/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	124		%	5	06/01/23	JRB	50 - 150 %
% Terphenyl (surr)	156		%	5	06/01/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.51	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
4-Chlorotoluene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
Bromochloromethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
m&p-Xylene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
o-Xylene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
sec-Butylbenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
Styrene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	340	ug/Kg	50	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	690	ug/Kg	50	05/24/23	JLI	SW8260C
Trichloroethene	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	5.1	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	93		%	1	05/25/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	05/24/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	87		%	50	05/24/23	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	05/24/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Acenaphthene	ND	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Acenaphthylene	ND	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Anthracene	ND	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Benz(a)anthracene	3300	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(a)pyrene	3600	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(b)fluoranthene	4200	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(ghi)perylene	3300	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Benzo(k)fluoranthene	1700	1000	ug/Kg	10	05/31/23	KCA	SW8270D
Chrysene	3400	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	1000	ug/Kg	10	05/31/23	KCA	SW8270D
Fluoranthene	6200	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Fluorene	ND	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	3100	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Naphthalene	ND	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Phenanthrene	4000	2600	ug/Kg	10	05/31/23	KCA	SW8270D
Pyrene	6100	2600	ug/Kg	10	05/31/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl (10x)	53		%	10	05/31/23	KCA	30 - 130 %
% Nitrobenzene-d5 (10x)	51		%	10	05/31/23	KCA	30 - 130 %
% Terphenyl-d14 (10x)	56		%	10	05/31/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

Semi-Volatile Comment:

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

05/19/23
 05/19/23

Time

8:57
 15:31

Laboratory Data

SDG ID: GCO10275
 Phoenix ID: CO10277

Project ID: BRAINARD AIRPORT
 Client ID: B-121 (9-10`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		05/19/23	CV	SW846-%Solid
Field Extraction	Completed				05/19/23		SW5035A
Extraction of ETPH	Completed				05/30/23	U/M	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	1	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	74		%	1	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	05/31/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	8.8	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.57	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	10	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
m&p-Xylene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	34	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	380	350	ug/Kg	50	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
o-Xylene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Trichloroethene	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	5.7	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	90		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/25/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/24/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	87		%	50	05/24/23	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	05/24/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

05/19/23
 05/19/23

Time

8:30
 15:31

Laboratory Data

SDG ID: GCO10275
 Phoenix ID: CO10278

Project ID: BRAINARD AIRPORT
 Client ID: B-122 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	05/24/23	TH	SW6010D
Arsenic	3.96	0.81	mg/Kg	1	05/24/23	TH	SW6010D
Barium	84.7	0.41	mg/Kg	1	05/24/23	TH	SW6010D
Cadmium	1.50	0.41	mg/Kg	1	05/24/23	TH	SW6010D
Chromium	33.0	0.41	mg/Kg	1	05/24/23	TH	SW6010D
Mercury	0.16	0.03	mg/Kg	2	05/30/23	AL1	SW7471B
Lead	16.9	0.41	mg/Kg	1	05/24/23	TH	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	05/24/23	TH	SW6010D
SPLP Barium	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	80		%		05/19/23	CV	SW846-%Solid
Field Extraction	Completed				05/19/23		SW5035A
Mercury Digestion	Completed				05/30/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/30/23	U/M	SW3546
Soil Extraction for SVOA PAH	Completed				05/30/23	C/F	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	06/01/23	JRB	CTETPH
Identification	ND		mg/Kg	1	06/01/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	118		%	1	06/01/23	JRB	50 - 150 %
% Terphenyl (surr)	115		%	1	06/01/23	JRB	50 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.53	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/24/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/24/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/24/23	JLI	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Benzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromoform	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroform	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Styrene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Toluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/24/23	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane	90		%	1	05/24/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/24/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Acenaphthene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Anthracene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Chrysene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Fluorene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
Pyrene	ND	290	ug/Kg	1	05/31/23	AW	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	67		%	1	05/31/23	AW	30 - 130 %
% Nitrobenzene-d5	57		%	1	05/31/23	AW	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	71		%	1	05/31/23	AW	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

05/19/23
 05/19/23

Time

9:38
 15:31

Laboratory Data

SDG ID: GCO10275
 Phoenix ID: CO10279

Project ID: BRAINARD AIRPORT
 Client ID: B-123 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/24/23	TH	SW6010D
Arsenic	3.95	0.75	mg/Kg	1	05/24/23	TH	SW6010D
Barium	84.7	0.37	mg/Kg	1	05/24/23	TH	SW6010D
Cadmium	1.42	0.37	mg/Kg	1	05/24/23	TH	SW6010D
Chromium	30.3	0.37	mg/Kg	1	05/24/23	TH	SW6010D
Mercury	0.42	0.03	mg/Kg	2	05/30/23	AL1	SW7471B
Lead	21.5	0.37	mg/Kg	1	05/24/23	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/24/23	TH	SW6010D
SPLP Barium	0.011	0.010	mg/L	1	06/27/23	TH	SW6010D
SPLP Mercury	< 0.0005	0.0005	mg/L	1	06/21/23	AL1	SW7470A
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	86		%		05/19/23	CV	SW846-%Solid
Field Extraction	Completed				05/19/23		SW5035A
Mercury Digestion	Completed				05/30/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/30/23	U/M	SW3546
Soil Extraction for PCB	Completed				05/31/23	C/Y	SW3545A
Soil Extraction for Pesticide	Completed				05/31/23	C/Y	SW3545A
Soil Extraction for SVOA PAH	Completed				05/30/23	C/F	SW3546
SPLP Digestion Mercury	Completed				06/21/23	ZT/W/ZT	SW1312/SW7470A
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	06/01/23	JRB	CTETPH
Identification	ND		mg/Kg	1	06/01/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	105		%	1	06/01/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	95		%	1	06/01/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	68		%	10	06/02/23	SC	30 - 150 %
% DCBP (Confirmation)	71		%	10	06/02/23	SC	30 - 150 %
% TCMX	53		%	10	06/02/23	SC	30 - 150 %
% TCMX (Confirmation)	49		%	10	06/02/23	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
4,4' -DDE	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
4,4' -DDT	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Alachlor	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	06/03/23	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	06/03/23	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	06/03/23	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	06/03/23	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	06/03/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	06/03/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	58		%	2	06/03/23	AW	30 - 150 %
% DCBP (Confirmation)	40		%	2	06/03/23	AW	30 - 150 %
% TCMX	40		%	2	06/03/23	AW	30 - 150 %
% TCMX (Confirmation)	40		%	2	06/03/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.49	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
2-Chlorotoluene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/24/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
4-Chlorotoluene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/24/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/24/23	JLI	SW8260C
Acrylonitrile	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Benzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromobenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromochloromethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromodichloromethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromoform	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromomethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon Disulfide	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon tetrachloride	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Chlorobenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroform	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Chloromethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromomethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Ethylbenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
m&p-Xylene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	05/24/23	JLI	SW8260C
Methylene chloride	ND	9.9	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
o-Xylene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
sec-Butylbenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Styrene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
tert-Butylbenzene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	05/24/23	JLI	SW8260C
Toluene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Total Xylenes	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	1	05/24/23	JLI	SW8260C
Trichloroethene	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.9	ug/Kg	1	05/24/23	JLI	SW8260C
Vinyl chloride	ND	4.9	ug/Kg	1	05/24/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/24/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/24/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/24/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	05/31/23	AW	SW8270D
Acenaphthene	ND	260	ug/Kg	1	05/31/23	AW	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/31/23	AW	SW8270D
Anthracene	ND	260	ug/Kg	1	05/31/23	AW	SW8270D
Benz(a)anthracene	650	260	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(a)pyrene	880	260	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(b)fluoranthene	870	260	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(ghi)perylene	510	260	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(k)fluoranthene	290	260	ug/Kg	1	05/31/23	AW	SW8270D
Chrysene	650	260	ug/Kg	1	05/31/23	AW	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/31/23	AW	SW8270D
Fluoranthene	1000	260	ug/Kg	1	05/31/23	AW	SW8270D
Fluorene	ND	260	ug/Kg	1	05/31/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	490	260	ug/Kg	1	05/31/23	AW	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/31/23	AW	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/31/23	AW	SW8270D
Pyrene	1300	260	ug/Kg	1	05/31/23	AW	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	61		%	1	05/31/23	AW	30 - 130 %
% Nitrobenzene-d5	54		%	1	05/31/23	AW	30 - 130 %
% Terphenyl-d14	63		%	1	05/31/23	AW	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: B
Analyzed by: see "By" below

Date

05/19/23
05/19/23

Time

8:15
15:31

Laboratory Data

SDG ID: GCO10275
Phoenix ID: CO10280

Project ID: BRAINARD AIRPORT
Client ID: B-124 (0-2')

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Percent Solid (88%) and Extraction of ETPH (Completed).

TPH by GC (Extractable Products)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Ext. Petroleum H.C. (C9-C36) and Identification.

QA/QC Surrogates

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include % COD (surr) and % Terphenyl (surr).

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Handwritten signature of Phyllis Shiller

Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

05/19/23
 05/19/23

Time

9:16
 15:31

Laboratory Data

SDG ID: GCO10275
 Phoenix ID: CO10281

Project ID: BRAINARD AIRPORT
 Client ID: B-125 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	05/24/23	TH	SW6010D
Arsenic	2.81	0.66	mg/Kg	1	05/24/23	TH	SW6010D
Barium	49.4	0.33	mg/Kg	1	05/24/23	TH	SW6010D
Cadmium	1.15	0.33	mg/Kg	1	05/24/23	TH	SW6010D
Chromium	21.5	0.33	mg/Kg	1	05/24/23	TH	SW6010D
Mercury	0.23	0.03	mg/Kg	2	05/30/23	AL1	SW7471B
Lead	31.2	0.33	mg/Kg	1	05/24/23	TH	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	93		%		05/19/23	CV	SW846-%Solid

Field Extraction	Completed				05/19/23		SW5035A
Mercury Digestion	Completed				05/30/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/30/23	U/M	SW3546
Soil Extraction for PCB	Completed				05/31/23	C/Y	SW3546
Soil Extraction for Pesticide	Completed				05/31/23	C/Y	SW3546
Soil Extraction for SVOA PAH	Completed				05/30/23	C/F	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	102		%	5	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	89		%	5	05/31/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	350	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	06/03/23	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	350	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	06/03/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	97		%	10	06/03/23	SC	30 - 150 %
% DCBP (Confirmation)	109		%	10	06/03/23	SC	30 - 150 %
% TCMX	92		%	10	06/03/23	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	06/03/23	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
4,4' -DDE	7.6	7.1	ug/Kg	2	06/03/23	AW	SW8081B
4,4' -DDT	8.4	7.1	ug/Kg	2	06/03/23	AW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Alachlor	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Aldrin	ND	3.5	ug/Kg	2	06/03/23	AW	SW8081B
b-BHC	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Chlordane	ND	35	ug/Kg	2	06/03/23	AW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endrin	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	06/03/23	AW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	06/03/23	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	06/03/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	06/03/23	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	06/03/23	AW	30 - 150 %
% TCMX	68		%	2	06/03/23	AW	30 - 150 %
% TCMX (Confirmation)	67		%	2	06/03/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloropropene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.39	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloropropane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
2-Chlorotoluene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
2-Hexanone	ND	19	ug/Kg	1	05/24/23	JLI	SW8260C
2-Isopropyltoluene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
4-Chlorotoluene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	19	ug/Kg	1	05/24/23	JLI	SW8260C
Acetone	ND	190	ug/Kg	1	05/24/23	JLI	SW8260C
Acrylonitrile	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Benzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromobenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromochloromethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromodichloromethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromoform	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Bromomethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon Disulfide	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon tetrachloride	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Chlorobenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroform	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Chloromethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromochloromethane	ND	2.3	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromomethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Ethylbenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
m&p-Xylene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	23	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.7	ug/Kg	1	05/24/23	JLI	SW8260C
Methylene chloride	ND	7.7	ug/Kg	1	05/24/23	JLI	SW8260C
Naphthalene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
o-Xylene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Styrene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
tert-Butylbenzene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.7	ug/Kg	1	05/24/23	JLI	SW8260C
Toluene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Total Xylenes	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.7	ug/Kg	1	05/24/23	JLI	SW8260C
Trichloroethene	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	7.7	ug/Kg	1	05/24/23	JLI	SW8260C
Vinyl chloride	ND	3.9	ug/Kg	1	05/24/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/24/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/24/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/24/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	05/31/23	RM	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/31/23	RM	SW8270D
Acenaphthylene	940	250	ug/Kg	1	05/31/23	RM	SW8270D
Anthracene	310	250	ug/Kg	1	05/31/23	RM	SW8270D
Benz(a)anthracene	2500	250	ug/Kg	1	05/31/23	RM	SW8270D
Benzo(a)pyrene	3800	250	ug/Kg	1	05/31/23	RM	SW8270D
Benzo(b)fluoranthene	3900	250	ug/Kg	1	05/31/23	RM	SW8270D
Benzo(ghi)perylene	1800	250	ug/Kg	1	05/31/23	RM	SW8270D
Benzo(k)fluoranthene	1400	250	ug/Kg	1	05/31/23	RM	SW8270D
Chrysene	2600	250	ug/Kg	1	05/31/23	RM	SW8270D
Dibenz(a,h)anthracene	350	250	ug/Kg	1	05/31/23	RM	SW8270D
Fluoranthene	4300	250	ug/Kg	1	05/31/23	RM	SW8270D
Fluorene	ND	250	ug/Kg	1	05/31/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	1800	250	ug/Kg	1	05/31/23	RM	SW8270D
Naphthalene	420	250	ug/Kg	1	05/31/23	RM	SW8270D
Phenanthrene	ND	250	ug/Kg	1	05/31/23	RM	SW8270D
Pyrene	5700	250	ug/Kg	1	05/31/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	54		%	1	05/31/23	RM	30 - 130 %
% Nitrobenzene-d5	48		%	1	05/31/23	RM	30 - 130 %
% Terphenyl-d14	61		%	1	05/31/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: 5 Day
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

05/19/23
 05/19/23

Time

12:32
 15:31

Laboratory Data

SDG ID: GCO10275
 Phoenix ID: CO10282

Project ID: BRAINARD AIRPORT
 Client ID: B-127 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	05/24/23	TH	SW6010D
Arsenic	4.45	0.77	mg/Kg	1	05/24/23	TH	SW6010D
Barium	77.1	0.38	mg/Kg	1	05/24/23	TH	SW6010D
Beryllium	0.50	0.31	mg/Kg	1	05/24/23	TH	SW6010D
Cadmium	1.35	0.38	mg/Kg	1	05/24/23	TH	SW6010D
Chromium	31.8	0.38	mg/Kg	1	05/24/23	TH	SW6010D
Copper	42.5	0.8	mg/kg	1	05/24/23	TH	SW6010D
Mercury	0.16	0.03	mg/Kg	2	05/30/23	AL1	SW7471B
Nickel	29.6	0.38	mg/Kg	1	05/24/23	TH	SW6010D
Lead	33.4	0.38	mg/Kg	1	05/24/23	TH	SW6010D
Antimony	< 3.8	3.8	mg/Kg	1	05/24/23	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/24/23	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	06/22/23	IE	SW6010D
SPLP Copper	0.013	0.010	mg/L	1	06/22/23	IE	SW6010D
SPLP Nickel	< 0.010	0.010	mg/L	1	06/22/23	IE	SW6010D
Thallium	< 3.4	3.4	mg/Kg	1	05/24/23	TH	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Vanadium	34.0	0.38	mg/Kg	1	05/24/23	TH	SW6010D
Zinc	91.7	0.8	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	87		%		05/19/23	CV	SW846-%Solid
Field Extraction	Completed				05/19/23		SW5035A
Mercury Digestion	Completed				05/30/23	AL/AL	SW7471B
Extraction of ETPH	Completed				05/30/23	U/M	SW3546
Soil Extraction for PCB	Completed				06/01/23	H/Y	SW3546
Soil Extraction for SVOA	Completed				05/31/23	U/C/A	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	06/01/23	JRB	CTETPH
Identification	ND		mg/Kg	1	06/01/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	98		%	1	06/01/23	JRB	50 - 150 %
% Terphenyl (surr)	90		%	1	06/01/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	06/02/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	106		%	10	06/02/23	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	06/02/23	SC	30 - 150 %
% TCMX	81		%	10	06/02/23	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	06/02/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.53	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
2-Chlorotoluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/24/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
4-Chlorotoluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/24/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/24/23	JLI	SW8260C
Acrylonitrile	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Benzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromochloromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromodichloromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromoform	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Bromomethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon Disulfide	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon tetrachloride	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Chlorobenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroform	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Chloromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromomethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Ethylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
m&p-Xylene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Naphthalene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
o-Xylene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
sec-Butylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Styrene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
tert-Butylbenzene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Toluene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Total Xylenes	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Trichloroethene	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Vinyl chloride	ND	5.3	ug/Kg	1	05/24/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/24/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/24/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	89		%	1	05/24/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/24/23	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2,4-Dinitrophenol	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
2-Nitroaniline	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
3-Nitroaniline	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	06/01/23	KCA	SW8270D
4-Nitrophenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Acenaphthene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Acetophenone	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Aniline	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
Anthracene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Benzenidine	ND	200	ug/Kg	1	06/01/23	KCA	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Benzoic acid	ND	760	ug/Kg	1	06/01/23	KCA	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbazole	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
Chrysene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Di-n-butylphthalate	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Fluoranthene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Fluorene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Isophorone	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Naphthalene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/01/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/01/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
Pentachloronitrobenzene	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
Phenanthrene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Phenol	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Pyrene	ND	270	ug/Kg	1	06/01/23	KCA	SW8270D
Pyridine	ND	380	ug/Kg	1	06/01/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	99		%	1	06/01/23	KCA	30 - 130 %
% 2-Fluorobiphenyl	82		%	1	06/01/23	KCA	30 - 130 %
% 2-Fluorophenol	74		%	1	06/01/23	KCA	30 - 130 %
% Nitrobenzene-d5	82		%	1	06/01/23	KCA	30 - 130 %
% Phenol-d5	79		%	1	06/01/23	KCA	30 - 130 %
% Terphenyl-d14	69		%	1	06/01/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

05/19/23
 05/19/23

Time

9:17
 15:31

Laboratory Data

SDG ID: GCO10275
 Phoenix ID: CO10283

Project ID: BRAINARD AIRPORT
 Client ID: DUP-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	05/24/23	TH	SW6010D
Arsenic	2.55	0.72	mg/Kg	1	05/24/23	TH	SW6010D
Barium	52.9	0.36	mg/Kg	1	05/24/23	TH	SW6010D
Cadmium	1.13	0.36	mg/Kg	1	05/24/23	TH	SW6010D
Chromium	20.5	0.36	mg/Kg	1	05/24/23	TH	SW6010D
Mercury	0.37	0.03	mg/Kg	2	05/30/23	AL1	SW7471B
Lead	30.8	0.36	mg/Kg	1	05/24/23	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	05/24/23	TH	SW6010D
Percent Solid	93		%		05/19/23	CV	SW846-%Solid

Field Extraction	Completed				05/19/23		SW5035A
Mercury Digestion	Completed				05/30/23	AL/AL/ZT	SW7471B
Extraction of ETPH	Completed				05/30/23	U/M	SW3546
Soil Extraction for PCB	Completed				05/31/23	C/Y	SW3546
Soil Extraction for Pesticide	Completed				05/31/23	C/Y	SW3546
Soil Extraction for SVOA PAH	Completed				05/30/23	C/F	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	05/31/23	JRB	CTETPH
Identification	ND		mg/Kg	5	05/31/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	98		%	5	05/31/23	JRB	50 - 150 %
% Terphenyl (surr)	86		%	5	05/31/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	360	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	06/03/23	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	360	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	06/03/23	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	06/03/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	10	06/03/23	SC	30 - 150 %
% DCBP (Confirmation)	84		%	10	06/03/23	SC	30 - 150 %
% TCMX	68		%	10	06/03/23	SC	30 - 150 %
% TCMX (Confirmation)	63		%	10	06/03/23	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
4,4' -DDE	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
4,4' -DDT	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Alachlor	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	06/03/23	AW	SW8081B
b-BHC	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	06/03/23	AW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endrin	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	06/03/23	AW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	06/03/23	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	06/03/23	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	06/03/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	43		%	2	06/03/23	AW	30 - 150 %
% DCBP (Confirmation)	48		%	2	06/03/23	AW	30 - 150 %
% TCMX	49		%	2	06/03/23	AW	30 - 150 %
% TCMX (Confirmation)	49		%	2	06/03/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.54	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/24/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/24/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/24/23	JLI	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Benzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Bromoform	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroform	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Styrene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Toluene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/24/23	JLI	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	05/24/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/24/23	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/24/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/24/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	05/31/23	AW	SW8270D
Acenaphthene	ND	250	ug/Kg	1	05/31/23	AW	SW8270D
Acenaphthylene	1400	250	ug/Kg	1	05/31/23	AW	SW8270D
Anthracene	490	250	ug/Kg	1	05/31/23	AW	SW8270D
Benz(a)anthracene	3300	250	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(a)pyrene	4900	250	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(b)fluoranthene	5000	250	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(ghi)perylene	2600	250	ug/Kg	1	05/31/23	AW	SW8270D
Benzo(k)fluoranthene	1700	250	ug/Kg	1	05/31/23	AW	SW8270D
Chrysene	3400	250	ug/Kg	1	05/31/23	AW	SW8270D
Dibenz(a,h)anthracene	500	250	ug/Kg	1	05/31/23	AW	SW8270D
Fluoranthene	5900	250	ug/Kg	1	05/31/23	AW	SW8270D
Fluorene	ND	250	ug/Kg	1	05/31/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	2600	250	ug/Kg	1	05/31/23	AW	SW8270D
Naphthalene	630	250	ug/Kg	1	05/31/23	AW	SW8270D
Phenanthrene	270	250	ug/Kg	1	05/31/23	AW	SW8270D
Pyrene	6400	1200	ug/Kg	5	05/31/23	AW	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	64		%	1	05/31/23	AW	30 - 130 %
% Nitrobenzene-d5	61		%	1	05/31/23	AW	30 - 130 %
% Terphenyl-d14	75		%	1	05/31/23	AW	30 - 130 %
% 2-Fluorobiphenyl (5x)	68		%	5	05/31/23	AW	30 - 130 %
% Nitrobenzene-d5 (5x)	67		%	5	05/31/23	AW	30 - 130 %
% Terphenyl-d14 (5x)	68		%	5	05/31/23	AW	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: B
Analyzed by: see "By" below

Date

05/19/23
05/19/23

Time

15:31

Laboratory Data

SDG ID: GCO10275
Phoenix ID: CO10284

Project ID: BRAINARD AIRPORT
Client ID: TB HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/19/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/24/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/24/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/24/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/24/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/24/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/24/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/24/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/24/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/24/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/24/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/24/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/24/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/24/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/24/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	98		%	50	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	86		%	50	05/24/23	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	05/24/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: B
Analyzed by: see "By" below

Date

05/19/23
05/19/23

Time

15:31

Laboratory Data

SDG ID: GCO10275
Phoenix ID: CO10285

Project ID: BRAINARD AIRPORT
Client ID: TB LL

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Includes a 'Field Extraction' row and a 'Volatiles' section listing various chemical compounds and their results.

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/24/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/24/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/24/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97		%	1	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	05/24/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/24/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 28, 2023

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 679869 (mg/kg), QC Sample No: CO08087 2X (CO10275, CO10276, CO10278)

Mercury - Soil	BRL	0.03	0.08	0.07	NC	108	118	8.8	99.1	94.3	5.0	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 679870 (mg/kg), QC Sample No: CO08930 2X (CO10279, CO10281, CO10282)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	112	108	3.6	108	118	8.8	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 679872 (mg/kg), QC Sample No: CO10158 2X (CO10283)

Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	101	107	5.8	104	104	0.0	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 683376 (mg/L), QC Sample No: CO11308 (CO10279)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	101			92.2			80 - 120	20
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 683383 (mg/L), QC Sample No: CO00632 (CO10278, CO10279)

ICP Metals - SPLP Extraction

Barium	BRL	0.010	<0.010	<0.010	NC	100	102	2.0	101			80 - 120	20
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Chromium	BRL	0.010	<0.010	<0.010	NC	101	102	1.0	101			80 - 120	20
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 678902 (mg/kg), QC Sample No: CO10241 (CO10275, CO10276, CO10278, CO10279, CO10281, CO10282, CO10283)

ICP Metals - Soil

Antimony	BRL	3.3	<3.7	<3.7	NC	105	104	1.0	92.9			75 - 125	35
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Arsenic	BRL	0.67	19.9	16.2	20.5	107	101	5.8	93.1			75 - 125	35
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Barium	BRL	0.33	28.7	26.6	7.60	112	105	6.5	97.9			75 - 125	35
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Beryllium	BRL	0.27	0.40	0.45	NC	106	98.6	7.2	91.6			75 - 125	35
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Cadmium	BRL	0.33	0.71	0.67	NC	107	97.8	9.0	96.4			75 - 125	35
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Chromium	BRL	0.33	17.7	19.7	10.7	109	102	6.6	94.5			75 - 125	35
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Copper	BRL	0.67	17.4	11.1	44.2	106	100	5.8	90.8			75 - 125	35
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Lead	BRL	0.33	10.0	12.3	20.6	104	99.6	4.3	97.6			75 - 125	35
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Nickel	BRL	0.33	12.8	13.0	1.60	107	99.0	7.8	95.3			75 - 125	35
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Selenium	BRL	1.3	<1.5	<1.5	NC	110	105	4.7	94.3			75 - 125	35
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Silver	BRL	0.33	<0.37	<0.37	NC	99.2	94.4	5.0	89.3			75 - 125	35
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Thallium	BRL	3.0	<3.3	<3.3	NC	104	101	2.9	91.2			75 - 125	35
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Vanadium	BRL	0.33	17.7	20.0	12.2	109	104	4.7	94.7			75 - 125	35
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Zinc	BRL	0.67	30.3	36.0	17.2	111	107	3.7	93.9			75 - 125	35
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 683384 (mg/L), QC Sample No: CO20137 (CO10282)													
ICP Metals - SPLP Extraction													
Chromium	BRL	0.010	<0.010	<0.010	NC	102	104	1.9	100			80 - 120	20
Copper	BRL	0.010	<0.010	<0.010	NC	104	106	1.9	103			80 - 120	20
Nickel	BRL	0.010	<0.010	<0.010	NC	103	106	2.9	101			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

r = This parameter is outside laboratory RPD specified recovery limits.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 28, 2023

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 679984 (mg/Kg), QC Sample No: CO10246 (CO10275, CO10276, CO10277, CO10278, CO10279, CO10280, CO10281, CO10282, CO10283)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	85	101	17.2	104	96	8.0	60 - 120	30
% COD (surr)	81	%	96	100	4.1	92	93	1.1	50 - 150	30
% Terphenyl (surr)	83	%	85	86	1.2	78	71	9.4	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 680180 (ug/Kg), QC Sample No: CO14859 2X (CO10275, CO10279, CO10281, CO10283)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	95	83	13.5	76	75	1.3	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	95	90	5.4	75	72	4.1	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	102	%	114	101	12.1	83	78	6.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	95	%	121	107	12.3	86	80	7.2	30 - 150	30
% TCMX (Surrogate Rec)	79	%	92	82	11.5	81	79	2.5	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	82	%	84	78	7.4	77	75	2.6	30 - 150	30

QA/QC Batch 680350 (ug/Kg), QC Sample No: CO16560 2X (CO10282)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	85	85	0.0	79	82	3.7	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	87	89	2.3	77	80	3.8	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	85	%	97	102	5.0	82	84	2.4	30 - 150	30
% DCBP (Surrogate Rec) (Confirm)	90	%	104	110	5.6	83	86	3.6	30 - 150	30
% TCMX (Surrogate Rec)	65	%	90	93	3.3	85	89	4.6	30 - 150	30
% TCMX (Surrogate Rec) (Confirm)	61	%	85	88	3.5	81	84	3.6	30 - 150	30

QA/QC Batch 680181 (ug/Kg), QC Sample No: CO14859 2X (CO10275, CO10279, CO10281, CO10283)

Pesticides - Soil

4,4' -DDD	ND	1.7	126	124	1.6	83	102	20.5	40 - 140	30
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QA/QC Data

SDG I.D.: GCO10275

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
4,4' -DDE	ND	1.7	122	120	1.7	82	99	18.8	40 - 140	30
4,4' -DDT	ND	1.7	128	122	4.8	86	100	15.1	40 - 140	30
a-BHC	ND	1.0	111	95	15.5	71	86	19.1	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	112	104	7.4	74	89	18.4	40 - 140	30
b-BHC	ND	1.0	109	103	5.7	70	82	15.8	40 - 140	30
Chlordane	ND	33	119	116	2.6	97	110	12.6	40 - 140	30
d-BHC	ND	3.3	117	107	8.9	76	92	19.0	40 - 140	30
Dieldrin	ND	1.0	119	117	1.7	81	99	20.0	40 - 140	30
Endosulfan I	ND	3.3	126	121	4.0	82	99	18.8	40 - 140	30
Endosulfan II	ND	3.3	130	124	4.7	86	99	14.1	40 - 140	30
Endosulfan sulfate	ND	3.3	126	122	3.2	82	96	15.7	40 - 140	30
Endrin	ND	3.3	122	117	4.2	80	94	16.1	40 - 140	30
Endrin aldehyde	ND	3.3	110	107	2.8	65	72	10.2	40 - 140	30
Endrin ketone	ND	3.3	127	126	0.8	84	100	17.4	40 - 140	30
g-BHC	ND	1.0	140	125	11.3	94	114	19.2	40 - 140	30
Heptachlor	ND	3.3	110	100	9.5	69	85	20.8	40 - 140	30
Heptachlor epoxide	ND	3.3	114	110	3.6	77	89	14.5	40 - 140	30
Methoxychlor	ND	3.3	124	118	5.0	86	103	18.0	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	113	%	110	106	3.7	76	91	18.0	30 - 150	30
% DCBP (Confirmation)	110	%	107	105	1.9	85	93	9.0	30 - 150	30
% TCMX	95	%	94	83	12.4	64	79	21.0	30 - 150	30
% TCMX (Confirmation)	93	%	91	81	11.6	65	81	21.9	30 - 150	30

QA/QC Batch 680004 (ug/kg), QC Sample No: CO09923 (CO10282)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	66	64	3.1	54	64	16.9	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	69	68	1.5	57	67	16.1	40 - 140	30
1,2-Dichlorobenzene	ND	180	65	67	3.0	53	63	17.2	40 - 140	30
1,2-Diphenylhydrazine	ND	230	90	85	5.7	73	86	16.4	40 - 140	30
1,3-Dichlorobenzene	ND	230	63	63	0.0	51	60	16.2	40 - 140	30
1,4-Dichlorobenzene	ND	230	64	65	1.6	52	62	17.5	40 - 140	30
2,2'-Oxybis(1-Chloropropane)	ND	230	78	80	2.5	65	78	18.2	40 - 140	30
2,4,5-Trichlorophenol	ND	230	90	87	3.4	75	85	12.5	40 - 140	30
2,4,6-Trichlorophenol	ND	130	95	89	6.5	77	91	16.7	30 - 130	30
2,4-Dichlorophenol	ND	130	82	80	2.5	67	79	16.4	30 - 130	30
2,4-Dimethylphenol	ND	230	91	90	1.1	74	87	16.1	30 - 130	30
2,4-Dinitrophenol	ND	230	77	86	11.0	77	88	13.3	30 - 130	30
2,4-Dinitrotoluene	ND	130	93	88	5.5	74	87	16.1	30 - 130	30
2,6-Dinitrotoluene	ND	130	90	85	5.7	74	84	12.7	40 - 140	30
2-Chloronaphthalene	ND	230	87	85	2.3	71	83	15.6	40 - 140	30
2-Chlorophenol	ND	230	79	80	1.3	64	77	18.4	30 - 130	30
2-Methylnaphthalene	ND	230	75	74	1.3	61	72	16.5	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	81	82	1.2	65	77	16.9	40 - 140	30
2-Nitroaniline	ND	330	107	95	11.9	78	90	14.3	40 - 140	30
2-Nitrophenol	ND	230	93	93	0.0	76	90	16.9	40 - 140	30
3&4-Methylphenol (m&p-cresol)	ND	230	85	85	0.0	68	81	17.4	30 - 130	30
3,3'-Dichlorobenzidine	ND	130	98	93	5.2	58	82	34.3	40 - 140	30
3-Nitroaniline	ND	330	103	91	12.4	78	91	15.4	40 - 140	30
4,6-Dinitro-2-methylphenol	ND	230	81	79	2.5	71	81	13.2	30 - 130	30
4-Bromophenyl phenyl ether	ND	230	84	79	6.1	67	80	17.7	40 - 140	30
4-Chloro-3-methylphenol	ND	230	89	86	3.4	73	85	15.2	30 - 130	30

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
4-Chloroaniline	ND	230	93	90	3.3	65	84	25.5	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	88	84	4.7	72	85	16.6	40 - 140	30	
4-Nitroaniline	ND	230	108	103	4.7	88	104	16.7	40 - 140	30	
4-Nitrophenol	ND	230	108	105	2.8	90	107	17.3	30 - 130	30	
Acenaphthene	ND	230	86	84	2.4	72	85	16.6	30 - 130	30	
Acenaphthylene	ND	130	83	80	3.7	68	80	16.2	40 - 140	30	
Acetophenone	ND	230	72	75	4.1	59	70	17.1	40 - 140	30	
Aniline	ND	330	74	44	50.8	43	53	20.8	40 - 140	30	r
Anthracene	ND	230	90	85	5.7	73	85	15.2	40 - 140	30	
Benz(a)anthracene	ND	230	89	84	5.8	73	86	16.4	40 - 140	30	
Benzidine	ND	330	97	<10	NC	<10	<10	NC	40 - 140	30	l,m
Benzo(a)pyrene	ND	130	102	97	5.0	85	99	15.2	40 - 140	30	
Benzo(b)fluoranthene	ND	160	90	85	5.7	76	88	14.6	40 - 140	30	
Benzo(ghi)perylene	ND	230	102	98	4.0	84	95	12.3	40 - 140	30	
Benzo(k)fluoranthene	ND	230	87	82	5.9	71	81	13.2	40 - 140	30	
Benzoic Acid	ND	670	53	85	46.4	93	99	6.3	30 - 130	30	r
Benzyl butyl phthalate	ND	230	98	94	4.2	80	92	14.0	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	81	80	1.2	65	78	18.2	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	77	81	5.1	62	74	17.6	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	93	89	4.4	74	85	13.8	40 - 140	30	
Carbazole	ND	230	88	81	8.3	69	82	17.2	40 - 140	30	
Chrysene	ND	230	89	86	3.4	72	83	14.2	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	101	97	4.0	83	94	12.4	40 - 140	30	
Dibenzofuran	ND	230	85	81	4.8	69	80	14.8	40 - 140	30	
Diethyl phthalate	ND	230	88	82	7.1	71	81	13.2	40 - 140	30	
Dimethylphthalate	ND	230	89	84	5.8	71	82	14.4	40 - 140	30	
Di-n-butylphthalate	ND	670	91	87	4.5	73	86	16.4	40 - 140	30	
Di-n-octylphthalate	ND	230	91	88	3.4	75	88	16.0	40 - 140	30	
Fluoranthene	ND	230	88	84	4.7	72	84	15.4	40 - 140	30	
Fluorene	ND	230	94	90	4.3	78	91	15.4	40 - 140	30	
Hexachlorobenzene	ND	130	92	88	4.4	76	90	16.9	40 - 140	30	
Hexachlorobutadiene	ND	230	68	67	1.5	56	65	14.9	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	51	56	9.3	49	58	16.8	40 - 140	30	
Hexachloroethane	ND	130	65	65	0.0	54	62	13.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	105	101	3.9	86	100	15.1	40 - 140	30	
Isophorone	ND	130	74	73	1.4	59	72	19.8	40 - 140	30	
Naphthalene	ND	230	74	74	0.0	62	73	16.3	40 - 140	30	
Nitrobenzene	ND	130	78	80	2.5	64	76	17.1	40 - 140	30	
N-Nitrosodimethylamine	ND	230	57	58	1.7	43	52	18.9	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	82	83	1.2	66	79	17.9	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	82	78	5.0	65	75	14.3	40 - 140	30	
Pentachloronitrobenzene	ND	230	83	79	4.9	67	81	18.9	40 - 140	30	
Pentachlorophenol	ND	230	86	84	2.4	73	88	18.6	30 - 130	30	
Phenanthrene	ND	130	88	82	7.1	72	83	14.2	40 - 140	30	
Phenol	ND	230	87	85	2.3	68	82	18.7	30 - 130	30	
Pyrene	ND	230	85	84	1.2	72	81	11.8	30 - 130	30	
Pyridine	ND	230	47	37	23.8	34	41	18.7	40 - 140	30	l,m
% 2,4,6-Tribromophenol	92	%	104	99	4.9	87	104	17.8	30 - 130	30	
% 2-Fluorobiphenyl	77	%	83	79	4.9	67	78	15.2	30 - 130	30	
% 2-Fluorophenol	73	%	78	78	0.0	62	75	19.0	30 - 130	30	
% Nitrobenzene-d5	75	%	77	78	1.3	63	74	16.1	30 - 130	30	
% Phenol-d5	76	%	85	84	1.2	66	79	17.9	30 - 130	30	
% Terphenyl-d14	77	%	72	69	4.3	58	68	15.9	30 - 130	30	

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 679939 (ug/kg), QC Sample No: CO10199 (CO10275, CO10276, CO10278, CO10279, CO10281, CO10283)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	55	51	7.5	56	48	15.4	40 - 140	30
Acenaphthene	ND	230	61	57	6.8	60	50	18.2	30 - 130	30
Acenaphthylene	ND	230	57	53	7.3	57	48	17.1	40 - 140	30
Anthracene	ND	230	64	58	9.8	63	52	19.1	40 - 140	30
Benz(a)anthracene	ND	230	63	57	10.0	62	51	19.5	40 - 140	30
Benzo(a)pyrene	ND	230	69	62	10.7	68	56	19.4	40 - 140	30
Benzo(b)fluoranthene	ND	230	63	58	8.3	62	53	15.7	40 - 140	30
Benzo(ghi)perylene	ND	230	66	59	11.2	64	53	18.8	40 - 140	30
Benzo(k)fluoranthene	ND	230	63	56	11.8	62	51	19.5	40 - 140	30
Chrysene	ND	230	68	60	12.5	66	55	18.2	40 - 140	30
Dibenz(a,h)anthracene	ND	230	66	59	11.2	64	52	20.7	40 - 140	30
Fluoranthene	ND	230	65	59	9.7	65	54	18.5	40 - 140	30
Fluorene	ND	230	64	59	8.1	63	52	19.1	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	66	59	11.2	64	53	18.8	40 - 140	30
Naphthalene	ND	230	51	49	4.0	51	45	12.5	40 - 140	30
Phenanthrene	ND	230	64	58	9.8	63	53	17.2	40 - 140	30
Pyrene	ND	230	66	59	11.2	66	54	20.0	30 - 130	30
% 2-Fluorobiphenyl	57	%	57	53	7.3	55	46	17.8	30 - 130	30
% Nitrobenzene-d5	52	%	50	48	4.1	50	46	8.3	30 - 130	30
% Terphenyl-d14	62	%	59	53	10.7	59	48	20.6	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 679496 (ug/kg), QC Sample No: CO03153 (CO10278, CO10279, CO10281, CO10282, CO10283, CO10285)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	104	106	1.9	106	106	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	103	106	2.9	105	105	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	95	98	3.1	101	99	2.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	98	102	4.0	103	102	1.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	107	108	0.9	109	108	0.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	107	111	3.7	110	110	0.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	108	109	0.9	110	111	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	102	104	1.9	102	99	3.0	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	98	101	3.0	103	100	3.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	101	102	1.0	100	98	2.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	101	1.0	102	104	1.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	97	101	4.0	98	95	3.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	100	104	3.9	106	104	1.9	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	102	103	1.0	103	104	1.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	110	112	1.8	114	114	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	100	102	2.0	104	104	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	104	103	1.0	105	106	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	102	102	0.0	103	103	0.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	103	105	1.9	107	107	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	101	101	0.0	102	102	0.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	93	95	2.1	89	89	0.0	70 - 130	30
2-Chlorotoluene	ND	5.0	104	104	0.0	106	107	0.9	70 - 130	30

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
2-Hexanone	ND	25	86	90	4.5	89	87	2.3	70 - 130	30	
2-Isopropyltoluene	ND	5.0	104	104	0.0	105	106	0.9	70 - 130	30	
4-Chlorotoluene	ND	5.0	104	103	1.0	105	106	0.9	70 - 130	30	
4-Methyl-2-pentanone	ND	25	94	99	5.2	100	97	3.0	70 - 130	30	
Acetone	ND	10	92	88	4.4	<10	86	NC	70 - 130	30	m
Acrylonitrile	ND	5.0	85	82	3.6	85	80	6.1	70 - 130	30	
Benzene	ND	1.0	101	104	2.9	105	105	0.0	70 - 130	30	
Bromobenzene	ND	5.0	102	103	1.0	105	105	0.0	70 - 130	30	
Bromochloromethane	ND	5.0	99	102	3.0	102	102	0.0	70 - 130	30	
Bromodichloromethane	ND	5.0	104	105	1.0	106	106	0.0	70 - 130	30	
Bromoform	ND	5.0	95	101	6.1	95	97	2.1	70 - 130	30	
Bromomethane	ND	5.0	120	118	1.7	122	123	0.8	70 - 130	30	
Carbon Disulfide	ND	5.0	100	103	3.0	101	100	1.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	96	99	3.1	98	98	0.0	70 - 130	30	
Chlorobenzene	ND	5.0	103	105	1.9	106	106	0.0	70 - 130	30	
Chloroethane	ND	5.0	114	116	1.7	112	118	5.2	70 - 130	30	
Chloroform	ND	5.0	99	102	3.0	103	102	1.0	70 - 130	30	
Chloromethane	ND	5.0	93	96	3.2	93	94	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	99	98	1.0	102	99	3.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	97	100	3.0	100	98	2.0	70 - 130	30	
Dibromochloromethane	ND	3.0	98	101	3.0	100	101	1.0	70 - 130	30	
Dibromomethane	ND	5.0	104	107	2.8	108	107	0.9	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	106	106	0.0	100	100	0.0	70 - 130	30	
Ethylbenzene	ND	1.0	106	107	0.9	108	109	0.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	106	105	0.9	97	100	3.0	70 - 130	30	
Isopropylbenzene	ND	1.0	104	104	0.0	106	107	0.9	70 - 130	30	
m&p-Xylene	ND	2.0	104	106	1.9	107	108	0.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	93	93	0.0	93	90	3.3	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	104	107	2.8	109	106	2.8	70 - 130	30	
Methylene chloride	ND	5.0	98	101	3.0	105	103	1.9	70 - 130	30	
Naphthalene	ND	5.0	98	102	4.0	103	100	3.0	70 - 130	30	
n-Butylbenzene	ND	1.0	106	106	0.0	106	107	0.9	70 - 130	30	
n-Propylbenzene	ND	1.0	105	104	1.0	106	106	0.0	70 - 130	30	
o-Xylene	ND	2.0	101	103	2.0	105	105	0.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	106	0.0	106	108	1.9	70 - 130	30	
sec-Butylbenzene	ND	1.0	107	106	0.9	107	109	1.9	70 - 130	30	
Styrene	ND	5.0	100	102	2.0	103	103	0.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	106	106	0.0	107	108	0.9	70 - 130	30	
Tetrachloroethene	ND	5.0	106	108	1.9	108	109	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	85	91	6.8	86	86	0.0	70 - 130	30	
Toluene	ND	1.0	103	104	1.0	106	106	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	108	110	1.8	110	109	0.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	98	101	3.0	98	97	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	86	90	4.5	82	82	0.0	70 - 130	30	
Trichloroethene	ND	5.0	105	108	2.8	75	107	35.2	70 - 130	30	r
Trichlorofluoromethane	ND	5.0	125	127	1.6	125	127	1.6	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	110	111	0.9	109	109	0.0	70 - 130	30	
Vinyl chloride	ND	5.0	101	105	3.9	103	103	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	97	%	100	100	0.0	100	100	0.0	70 - 130	30	
% Dibromofluoromethane	92	%	92	93	1.1	92	92	0.0	70 - 130	30	
% Toluene-d8	99	%	100	99	1.0	101	100	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Comment:										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.										
QA/QC Batch 679496H (ug/kg), QC Sample No: CO03153 50X (CO10275 (50X) , CO10276 (50X) , CO10277 (50X) , CO10284 (50X))										
Volatiles - Soil (High Level)										
1,1,1,2-Tetrachloroethane	ND	250	118	117	0.9	93	108	14.9	70 - 130	30
1,1,1-Trichloroethane	ND	250	112	115	2.6	92	105	13.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	113	116	2.6	93	106	13.1	70 - 130	30
1,1,2-Trichloroethane	ND	250	114	116	1.7	95	107	11.9	70 - 130	30
1,1-Dichloroethane	ND	250	116	118	1.7	99	110	10.5	70 - 130	30
1,1-Dichloroethene	ND	250	105	108	2.8	95	105	10.0	70 - 130	30
1,1-Dichloropropene	ND	250	122	124	1.6	102	114	11.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	128	123	4.0	99	117	16.7	70 - 130	30
1,2,3-Trichloropropane	ND	250	116	119	2.6	95	109	13.7	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	131	128	2.3	103	119	14.4	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	119	120	0.8	97	111	13.5	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	111	110	0.9	84	102	19.4	70 - 130	30
1,2-Dibromoethane	ND	250	117	118	0.9	96	111	14.5	70 - 130	30
1,2-Dichlorobenzene	ND	250	122	122	0.0	99	113	13.2	70 - 130	30
1,2-Dichloroethane	ND	250	125	129	3.1	105	118	11.7	70 - 130	30
1,2-Dichloropropane	ND	250	113	115	1.8	95	107	11.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	121	121	0.0	98	112	13.3	70 - 130	30
1,3-Dichlorobenzene	ND	250	123	123	0.0	100	114	13.1	70 - 130	30
1,3-Dichloropropane	ND	250	119	121	1.7	98	113	14.2	70 - 130	30
1,4-Dichlorobenzene	ND	250	123	123	0.0	99	113	13.2	70 - 130	30
2,2-Dichloropropane	ND	250	100	100	0.0	78	89	13.2	70 - 130	30
2-Chlorotoluene	ND	250	122	122	0.0	99	112	12.3	70 - 130	30
2-Hexanone	ND	1300	103	105	1.9	85	98	14.2	70 - 130	30
2-Isopropyltoluene	ND	250	121	121	0.0	98	112	13.3	70 - 130	30
4-Chlorotoluene	ND	250	124	123	0.8	100	115	14.0	70 - 130	30
4-Methyl-2-pentanone	ND	1300	111	115	3.5	92	105	13.2	70 - 130	30
Acetone	ND	500	87	90	3.4	78	86	9.8	70 - 130	30
Acrylonitrile	ND	250	94	99	5.2	80	92	14.0	70 - 130	30
Benzene	ND	250	114	116	1.7	95	108	12.8	70 - 130	30
Bromobenzene	ND	250	121	121	0.0	97	112	14.4	70 - 130	30
Bromochloromethane	ND	250	111	114	2.7	92	105	13.2	70 - 130	30
Bromodichloromethane	ND	250	116	116	0.0	92	105	13.2	70 - 130	30
Bromoform	ND	250	110	108	1.8	79	96	19.4	70 - 130	30
Bromomethane	ND	250	78	81	3.8	66	74	11.4	70 - 130	30
Carbon Disulfide	ND	250	99	100	1.0	86	97	12.0	70 - 130	30
Carbon tetrachloride	ND	250	104	104	0.0	80	93	15.0	70 - 130	30
Chlorobenzene	ND	250	120	121	0.8	99	112	12.3	70 - 130	30
Chloroethane	ND	250	25	25	0.0	22	24	8.7	70 - 130	30
Chloroform	ND	250	109	110	0.9	91	102	11.4	70 - 130	30
Chloromethane	ND	250	102	102	0.0	83	95	13.5	70 - 130	30
cis-1,2-Dichloroethene	ND	250	111	108	2.7	89	104	15.5	70 - 130	30
cis-1,3-Dichloropropene	ND	250	112	111	0.9	88	101	13.8	70 - 130	30
Dibromochloromethane	ND	150	111	111	0.0	85	100	16.2	70 - 130	30
Dibromomethane	ND	250	119	121	1.7	99	113	13.2	70 - 130	30
Dichlorodifluoromethane	ND	250	115	116	0.9	91	103	12.4	70 - 130	30
Ethylbenzene	ND	250	122	123	0.8	101	115	13.0	70 - 130	30

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Hexachlorobutadiene	ND	250	131	130	0.8	103	119	14.4	70 - 130	30
Isopropylbenzene	ND	250	120	121	0.8	98	112	13.3	70 - 130	30
m&p-Xylene	ND	250	122	123	0.8	100	114	13.1	70 - 130	30
Methyl ethyl ketone	ND	250	103	108	4.7	90	99	9.5	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	117	118	0.9	98	111	12.4	70 - 130	30
Methylene chloride	ND	250	112	112	0.0	94	106	12.0	70 - 130	30
Naphthalene	ND	250	121	118	2.5	95	113	17.3	70 - 130	30
n-Butylbenzene	ND	250	130	130	0.0	105	120	13.3	70 - 130	30
n-Propylbenzene	ND	250	122	122	0.0	99	113	13.2	70 - 130	30
o-Xylene	ND	250	118	119	0.8	97	110	12.6	70 - 130	30
p-Isopropyltoluene	ND	250	126	126	0.0	102	116	12.8	70 - 130	30
sec-Butylbenzene	ND	250	124	124	0.0	101	114	12.1	70 - 130	30
Styrene	ND	250	117	117	0.0	96	110	13.6	70 - 130	30
tert-Butylbenzene	ND	250	121	122	0.8	98	111	12.4	70 - 130	30
Tetrachloroethene	ND	250	125	125	0.0	101	116	13.8	70 - 130	30
Tetrahydrofuran (THF)	ND	250	98	102	4.0	84	94	11.2	70 - 130	30
Toluene	ND	250	117	119	1.7	98	110	11.5	70 - 130	30
trans-1,2-Dichloroethene	ND	250	120	120	0.0	99	113	13.2	70 - 130	30
trans-1,3-Dichloropropene	ND	250	112	112	0.0	86	100	15.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	103	101	2.0	73	87	17.5	70 - 130	30
Trichloroethene	ND	250	119	120	0.8	99	112	12.3	70 - 130	30
Trichlorofluoromethane	ND	250	20	21	4.9	18	19	5.4	70 - 130	30
Trichlorotrifluoroethane	ND	250	116	118	1.7	103	112	8.4	70 - 130	30
Vinyl chloride	ND	250	104	103	1.0	83	97	15.6	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	100	100	0.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	97	%	100	99	1.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	88	%	88	87	1.1	90	87	3.4	70 - 130	30
% Toluene-d8	99	%	101	100	1.0	100	100	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 679713 (ug/kg), QC Sample No: CO10539 (CO10275, CO10276, CO10277)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	115	115	0.0	114	116	1.7	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	110	109	0.9	115	117	1.7	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	107	107	0.0	114	116	1.7	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	112	112	0.0	118	120	1.7	70 - 130	30
1,1-Dichloroethane	ND	5.0	114	100	13.1	113	120	6.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	118	119	0.8	119	121	1.7	70 - 130	30
1,1-Dichloropropene	ND	5.0	118	117	0.9	121	123	1.6	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	117	113	3.5	101	94	7.2	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	114	111	2.7	118	121	2.5	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	114	110	3.6	100	95	5.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	114	111	2.7	113	119	5.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	112	111	0.9	115	119	3.4	70 - 130	30
1,2-Dibromoethane	ND	5.0	117	116	0.9	117	119	1.7	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	114	112	1.8	111	114	2.7	70 - 130	30
1,2-Dichloroethane	ND	5.0	123	123	0.0	124	124	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	114	112	1.8	114	115	0.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	116	112	3.5	117	121	3.4	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	114	111	2.7	112	114	1.8	70 - 130	30
1,3-Dichloropropane	ND	5.0	118	118	0.0	119	120	0.8	70 - 130	30

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	5.0	113	110	2.7	112	115	2.6	70 - 130	30	
2,2-Dichloropropane	ND	5.0	96	96	0.0	91	94	3.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	116	114	1.7	118	122	3.3	70 - 130	30	
2-Hexanone	ND	25	101	99	2.0	103	104	1.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	117	114	2.6	117	121	3.4	70 - 130	30	
4-Chlorotoluene	ND	5.0	116	114	1.7	118	120	1.7	70 - 130	30	
4-Methyl-2-pentanone	ND	25	110	108	1.8	115	115	0.0	70 - 130	30	
Acetone	ND	10	106	105	0.9	172	>200	NC	70 - 130	30	m
Acrylonitrile	ND	5.0	82	83	1.2	82	95	14.7	70 - 130	30	
Benzene	ND	1.0	113	114	0.9	115	116	0.9	70 - 130	30	
Bromobenzene	ND	5.0	116	114	1.7	116	121	4.2	70 - 130	30	
Bromochloromethane	ND	5.0	114	113	0.9	113	115	1.8	70 - 130	30	
Bromodichloromethane	ND	5.0	114	114	0.0	111	113	1.8	70 - 130	30	
Bromoform	ND	5.0	109	110	0.9	100	103	3.0	70 - 130	30	
Bromomethane	ND	5.0	138	139	0.7	138	142	2.9	70 - 130	30	l,m
Carbon Disulfide	ND	5.0	111	111	0.0	110	111	0.9	70 - 130	30	
Carbon tetrachloride	ND	5.0	104	104	0.0	100	104	3.9	70 - 130	30	
Chlorobenzene	ND	5.0	116	114	1.7	117	119	1.7	70 - 130	30	
Chloroethane	ND	5.0	129	129	0.0	131	139	5.9	70 - 130	30	m
Chloroform	ND	5.0	110	110	0.0	114	114	0.0	70 - 130	30	
Chloromethane	ND	5.0	108	111	2.7	112	113	0.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	108	108	0.0	114	114	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	110	108	1.8	103	103	0.0	70 - 130	30	
Dibromochloromethane	ND	3.0	112	112	0.0	107	109	1.9	70 - 130	30	
Dibromomethane	ND	5.0	118	118	0.0	118	120	1.7	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	125	123	1.6	121	125	3.3	70 - 130	30	
Ethylbenzene	ND	1.0	118	115	2.6	120	123	2.5	70 - 130	30	
Hexachlorobutadiene	ND	5.0	120	113	6.0	94	94	0.0	70 - 130	30	
Isopropylbenzene	ND	1.0	117	114	2.6	121	127	4.8	70 - 130	30	
m&p-Xylene	ND	2.0	116	114	1.7	118	120	1.7	70 - 130	30	
Methyl ethyl ketone	ND	5.0	101	101	0.0	112	114	1.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	115	115	0.0	123	122	0.8	70 - 130	30	
Methylene chloride	ND	5.0	111	112	0.9	124	122	1.6	70 - 130	30	
n-Butylbenzene	ND	1.0	120	113	6.0	111	123	10.3	70 - 130	30	
n-Propylbenzene	ND	1.0	117	113	3.5	116	127	9.1	70 - 130	30	
o-Xylene	ND	2.0	114	112	1.8	115	117	1.7	70 - 130	30	
p-Isopropyltoluene	ND	1.0	120	115	4.3	118	122	3.3	70 - 130	30	
sec-Butylbenzene	ND	1.0	120	115	4.3	118	125	5.8	70 - 130	30	
Styrene	ND	5.0	111	110	0.9	108	109	0.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	118	116	1.7	122	126	3.2	70 - 130	30	
Tetrachloroethene	ND	5.0	116	112	3.5	117	120	2.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	98	96	2.1	92	96	4.3	70 - 130	30	
Toluene	ND	1.0	115	113	1.8	116	117	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	119	119	0.0	120	120	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	108	108	0.0	101	101	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	96	96	0.0	82	83	1.2	70 - 130	30	
Trichloroethene	ND	5.0	118	118	0.0	119	119	0.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	141	136	3.6	139	144	3.5	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	5.0	120	115	4.3	117	120	2.5	70 - 130	30	
Vinyl chloride	ND	5.0	116	119	2.6	119	118	0.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	99	99	0.0	100	98	2.0	70 - 130	30	
% Bromofluorobenzene	97	%	98	99	1.0	101	99	2.0	70 - 130	30	
% Dibromofluoromethane	90	%	93	93	0.0	93	92	1.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCO10275

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Toluene-d8	99	%	100	100	0.0	100	99	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
June 28, 2023

Wednesday, June 28, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO10275 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO10275	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC I/C (mg/kg) / APS Organics	1400	1000	1000	1000	ug/Kg
CO10275	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	9200	2500	7800	7800	ug/Kg
CO10275	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	7900	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	6300	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	1400	1000	1000	1000	ug/Kg
CO10275	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	9200	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	7900	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5000	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	6100	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	6300	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	1400	1000	1000	1000	ug/Kg
CO10275	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	6800	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	9200	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3300	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	7900	2500	1000	1000	ug/Kg
CO10275	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	5000	2500	1000	1000	ug/Kg
CO10275	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	770	270	500	500	mg/Kg
CO10275	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	100	36	66	66	ug/Kg
CO10275	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	25	3.6	7	7	ug/Kg
CO10275	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	100	36	66	66	ug/Kg
CO10276	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	3600	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	3100	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3600	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4200	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3300	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3400	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	3300	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	3100	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3600	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1700	1000	1000	1000	ug/Kg
CO10276	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4200	2600	1000	1000	ug/Kg
CO10276	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3300	2600	1000	1000	ug/Kg
CO10276	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1200	280	500	500	mg/Kg
CO10281	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	3800	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3900	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2500	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3800	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	2600	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg

Wednesday, June 28, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO10275 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO10281	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1800	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1400	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3800	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Benzo(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2500	250	1000	1000	ug/Kg
CO10281	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3900	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	4900	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2600	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5000	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4900	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2600	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3400	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2600	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	4900	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	5000	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1700	250	1000	1000	ug/Kg
CO10283	\$8100SMR	Benzo(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3300	250	1000	1000	ug/Kg
CO10284	\$8260MER	1,2-Dibromoethane	CT / RSR DEC RES (mg/kg) / Volatiles	ND	25	7	7	ug/Kg
CO10284	\$8260MER	1,2-Dibromo-3-chloropropane	CT / RSR GB (mg/kg) / APS Organics	ND	50	40	40	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO10275-CO10285

Sampling Date(s): 5/19/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>VPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: SVOA Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Wednesday, June 28, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO10275

SDG Comments

Metals Analysis:

For some samples the client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 06/01/23-1 Jeff Bucko, Chemist 06/01/23

CO10275 (5X), CO10276 (5X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (601A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO10275, CO10276

Preceding CC 601A021 - None.

Succeeding CC 601A027 - % Terphenyl (surr) 41%H (30%)

AU-FID22 05/30/23-1 Jeff Bucko, Chemist 05/30/23

CO10281 (5X), CO10283 (5X)

The initial calibration (ETPH524I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (530A008) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 05/31/23-1 Jeff Bucko, Chemist 05/31/23

CO10278 (1X), CO10279 (1X), CO10280 (1X), CO10282 (1X)

The initial calibration (ETPH515I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (531A009_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 05/31/23-1 Jeff Bucko, Chemist 05/31/23

CO10277 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (531A009_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 679984 (CO10246)

CO10275, CO10276, CO10277, CO10278, CO10279, CO10280, CO10281, CO10282, CO10283

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.



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Certification Report

June 28, 2023

SDG I.D.: GCO10275

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 05/30/23 16:52 Alexander Latka, Chemist 05/30/23

CO10275, CO10276, CO10278, CO10279, CO10281, CO10282, CO10283

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 06/21/23 09:00 Alexander Latka, Chemist 06/21/23

CO10279

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 679869 (CO08087)

CO10275, CO10276, CO10278

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 679870 (CO08930)

CO10279, CO10281, CO10282

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 679872 (CO10158)

CO10283

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-



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Certification Report

June 28, 2023

SDG I.D.: GCO10275

Mercury Narration

125%.

Batch 683376 (CO11308)

CO10279

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 06/21/23 12:50 Ian Enders, Chemist 06/21/23

CO10282

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 06/27/23 09:50 Tina Hall, Chemist 06/27/23

CO10278, CO10279

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/24/23 09:15 Tina Hall, Chemist 05/24/23

CO10275, CO10276, CO10278, CO10279, CO10281, CO10282, CO10283

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 678902 (CO10241)

CO10275, CO10276, CO10278, CO10279, CO10281, CO10282, CO10283

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.

All LCS/LCSD RPDs were less than 35% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 683383 (CO00632)

CO10278, CO10279



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Certification Report

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SDG I.D.: GCO10275

ICP Metals Narration

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 683384 (CO20137)

CO10282

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 06/02/23-1 Saadia Chudary, Chemist 06/02/23

CO10275 (10X), CO10279 (10X), CO10281 (10X), CO10283 (10X)

The initial calibration (PC0505AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0505BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD48 06/02/23-1 Saadia Chudary, Chemist 06/02/23

CO10282 (10X)

The initial calibration (PC0327AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0327BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 680180 (CO14859)

CO10275, CO10279, CO10281, CO10283

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 680350 (CO16560)

CO10282

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD35 06/02/23-1 Adam Werner, Chemist 06/02/23



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO10275

PEST Narration

CO10275 (2X), CO10279 (2X), CO10281 (2X), CO10283 (2X)

The initial calibration (PS0602AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0602BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO10275, CO10279, CO10281, CO10283

Preceding CC 602B038 - Endosulfan II -21%L (20%)

Succeeding CC 602B051 - None.

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

QC (Batch Specific):

Batch 680181 (CO14859)

CO10275, CO10279, CO10281, CO10283

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 680004 (Samples: CO10282): -----

Several QC recoveries are below the methos criteria. A low bias is likely. (Benzidine)

Several QC recoveries are below the lower range. A low bias is possible. (Pyridine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Aniline, Benzoic Acid)

Instrument:

CHEM06 05/30/23-1 Raman Makol, Chemist 05/30/23

CO10275 (10X), CO10276 (10X), CO10278 (1X), CO10279 (1X), CO10281 (1X), CO10283 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_bn_0530):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0530_20-6_bn_0530):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.



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SDG I.D.: GCO10275

SVOA Narration

The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM07 05/31/23-1 Matt Richard, Chemist 05/31/23

CO10283 (5X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_BN_0530):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0531_03-7_BN_0530):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM28 05/31/23-1 Matt Richard, Chemist 05/31/23

CO10282 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM28/28_SPLIT_0523):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.056 (0.1), Hexachlorobenzene 0.082 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0531_03-28_SPLIT_0523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.065 (0.1), Hexachlorobenzene 0.082 (0.1)

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 679939 (CO10199)



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RCP Certification Report

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SDG I.D.: GCO10275

SVOA Narration

CO10275, CO10276, CO10278, CO10279, CO10281, CO10283

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 680004 (CO09923)

CO10282

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: Benzidine(<10%), Pyridine(37%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Aniline(50.8%), Benzoic Acid(46.4%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 679496H: -----

The LCS recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (1,2,4-Trichlorobenzene, Hexachlorobutadiene)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 679713 (Samples: CO10275, CO10276, CO10277): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane, Trichlorofluoromethane)

Instrument:

CHEM26 05/24/23-1 Jane Li, Chemist 05/24/23

CO10275 (50X), CO10276 (50X), CO10277 (50X), CO10278 (1X), CO10279 (1X), CO10281 (1X), CO10282 (1X), CO10283 (1X), CO10284 (50X), CO10285 (1X)

Initial Calibration Evaluation (CHEM26/VT-052223):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 24% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1), Tetrachloroethene 0.172 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0524_02-VT-052223):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Trichlorofluoromethane 34%H (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO10275

VOA Narration

CHEM26 05/25/23-1 Jane Li, Chemist 05/25/23

CO10275 (1X), CO10276 (1X), CO10277 (1X)

Initial Calibration Evaluation (CHEM26/VT-052223):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 24% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1), Tetrachloroethene 0.172 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0525_02-VT-052223):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

96% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Bromomethane 35%H (30%), Trichlorofluoromethane 39%H (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 679496 (CO03153) CHEM26 5/24/2023-1

CO10278(1X), CO10279(1X), CO10281(1X), CO10282(1X), CO10283(1X), CO10285(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 679496H (CO03153) CHEM26 5/24/2023-1

CO10275(50X), CO10276(50X), CO10277(50X), CO10284(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,2,4-Trichlorobenzene(131%), Chloroethane(25%), Hexachlorobutadiene(131%), Trichlorofluoromethane(20%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(25%), Trichlorofluoromethane(21%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 679713 (CO10539) CHEM26 5/25/2023-1

CO10275(1X), CO10276(1X), CO10277(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(138%), Trichlorofluoromethane(141%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(139%), Trichlorofluoromethane(136%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.3C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Monday, May 22, 2023 1:15 PM
To: Sarah Bell
Cc: Jill L. Libby
Subject: FW: Phoenix Labs - GCO10275, BRAINARD AIRPORT - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Hi Sarah,
Please add PCBs and pesticide analysis to the following sample:

CO10279	B-123 (0-2')
---------	--------------

Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

www.tighebond.com | halvorsondesign.com



From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Friday, May 19, 2023 8:45 PM
To: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: Phoenix Labs - GCO10275, BRAINARD AIRPORT - COC Acknowledgement

[Caution - External Sender]

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 12-5182-001

Samples Will Be Disposed After: 30 Days

GCO10275 Criteria:
SOIL(11): CT GBM (GB Mobility), CT I/C (I/C Dec), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed. Criteria added post-reporting requires re-evaluation of data and possible re-analysis therefore charges may apply. Project objectives not communicated at time of submittal may not be achieved.

Delivery group GCO10275 (BRAINARD AIRPORT) has been logged in for the following samples:

Phoenix Id	Client Id
CO10275	B-118 (0-2`)
CO10276	B-120 (0-2`)
CO10277	B-121 (9-10`)
CO10278	B-122 (0-2`)
CO10279	B-123 (0-2`)
CO10280	B-124 (0-2`)
CO10281	B-125 (0-2`)
CO10282	B-127 (0-2`)
CO10283	DUP-12
CO10284	TB HL
CO10285	TB LL

This SDG has been logged in for Standard 7 business day turn-around time.

The samples were received at 1.3C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike

P.O. Box 370

Manchester, CT 06374

Tel. (860) 645-1102

Fax. (860) 645-0823

www.phoenixlabs.com

Please do not reply to this email.

cc'd:JTolsen@tighebond.com;illibby@tighebond.com;cwatts@tighebond.com;MPaulsson@TigheBond.com;jackson@tighebond.com

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:39 AM
To: Shannon Wilhelm; Sarah Bell; Jill L. Libby
Subject: RE: SPLP Analysis

Yes, that is fine. Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

www.tighebond.com | halvorsondesign.com



From: Shannon Wilhelm <shannon@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:37 AM
To: Mark Paulsson <MPaulsson@TigheBond.com>; Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

Also, I just realized the SPLP HG would be past holding time too. Okay to proceed?

Shannon Wilhelm
Client Services Representative
Phoenix Environmental Laboratories
587 East Middle Turnpike

Manchester CT 06040
860-645-1102

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:28 AM
To: Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Cc: Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

Yes, please do. Thanks!

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484
w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:26 AM
To: Jill L. Libby <JLLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>; Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

[**Caution - External Sender**]

SPLP Pesticides are past holding time do you still want to run?

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
[Website: www.phoenixlabs.com](http://www.phoenixlabs.com)

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Tuesday, June 20, 2023 9:52 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

Thanks Sarah,
Could I please get the following SPLP analysis added with 5-day TAT?

Jill

SPLP Chromium (Total)	B-43	CN94966
SPLP Lead	B-43	CN94966
SPLP Mercury	B-43	CN94966
SPLP Lead	HA-1	CO00632
SPLP Lead	HA-5	CO00634
SPLP Lead	HA-9	CO00636
SPLP Lead	HA-10	CO00637
SPLP Lead	HA-44	CO00644
SPLP Lead	HA-46	CO00646
SPLP Lead	HA-47	CO00647
SPLP Vanadium	HA-39	CO00651
SPLP Copper	HA-24	CO01220
SPLP Lead	HA-24	CO01220
SPLP Zinc	HA-24	CO01220

SPLP Zinc	HA-25	CO01221
SPLP Lead	HA-26	CO01222
SPLP Pesticides	HA-26	CO01222
SPLP Lead	HA-28	CO01224
SPLP Lead	HA-29	CO01225
SPLP Lead	HA-30	CO01226
SPLP Lead	HA-31	CO01227
SPLP Lead	HA-32	CO01228
SPLP Pesticides	HA-32	CO01228
SPLP Barium	B-88	CO08010
SPLP Beryllium	B-88	CO08010
SPLP Nickel	B-88	CO08010
SPLP Vanadium	B-88	CO08010
SPLP Barium	DUP-8	CO08011
SPLP Beryllium	DUP-8	CO08011
SPLP Nickel	DUP-8	CO08011
SPLP Vanadium	DUP-8	CO08011
SPLP Barium	B-90	CO08015
SPLP Barium	B-92	CO08016
SPLP Beryllium	B-92	CO08016
SPLP Chromium (Total)	B-92	CO08016
SPLP Nickel	B-92	CO08016
SPLP Vanadium	B-92	CO08016
SPLP Copper	B-108	CO09181
SPLP Vanadium	B-108	CO09181
SPLP Barium	B-122	CO10278
SPLP Chromium (Total)	B-122	CO10278
SPLP Barium	B-123	CO10279
SPLP Mercury	B-123	CO10279
SPLP Chromium (Total)	B-127	CO10282
SPLP Copper	B-127	CO10282
SPLP Nickel	B-127	CO10282
SPLP Chromium (Total)	B-135	CO11308

SPLP Lead	B-135	CO11308
SPLP Mercury	B-135	CO11308
SPLP Copper	B-145	CO11311
SPLP Zinc	B-145	CO11311
SPLP Pesticides	HA-34	CO11319
SPLP Pesticides	HA-40	CO11322
SPLP Pesticides	DUP-13	CO11323

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby (she/her/hers)

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090

w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Friday, June 16, 2023 4:06 PM
To: Jill L. Libby <JLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

We should have the rest there are only like 3 we won't have I put NO in the box

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
[Website: www.phoenixlabs.com](http://www.phoenixlabs.com)

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Friday, June 16, 2023 12:43 PM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: SPLP Analysis

Sarah,
We are thinking of running the following samples for some SPLP metals. Could you please let us know if you have the following samples still? If you, we will let you know which metals/pests to run on which samples.
Thanks,
Jill

ID	lab ID	Still have?
B-108	CO09181	
B-112	CN92792	NO
B-122	CO10278	
B-123	CO10279	
B-127	CO10282	
B-135	CO11308	
B-145	CO11311	
B-3	CN93805	NO
B-43	CN94966	
B-88	CO08010	
B-90	CO08015	
B-92	CO08016	

B-93	CN93820	NO
DUP-13	CO11323	
DUP-8	CO08011	
HA-1	CO00632	
HA-10	CO00637	
HA-24	CO01220	
HA-25	CO01221	
HA-26	CO01222	
HA-26	CO01222	
HA-28	CO01224	
HA-29	CO01225	
HA-30	CO01226	
HA-31	CO01227	
HA-32	CO01228	
HA-32	CO01228	
HA-34	CO11319	
HA-39	CO00651	
HA-40	CO11322	
HA-44	CO00644	
HA-46	CO00646	
HA-47	CO00647	
HA-5	CO00634	
HA-9	CO00636	

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby (she/her/hers)

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090
w: tighebond.com | halvorsondesign.com





Wednesday, June 28, 2023

Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO11308
Sample ID#s: CO11308 - CO11325

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 28, 2023

SDG I.D.: GCO11308

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
B-135 (0-2`)	CO11308	SOIL
B-143 (0.5-1`)	CO11309	SOIL
B-144 (0.5-1`)	CO11310	SOIL
B-145 (0.5-1`)	CO11311	SOIL
B-146 (0.5-1`)	CO11312	SOIL
HA-3 (0-0.5`)	CO11313	SOIL
HA-4 (0-0.5`)	CO11314	SOIL
HA-6 (0-0.5`)	CO11315	SOIL
HA-8 (0-0.5`)	CO11316	SOIL
HA-11 (0-0.5`)	CO11317	SOIL
HA-13 (0-0.5`)	CO11318	SOIL
HA-34 (0.25-0.5`)	CO11319	SOIL
HA-35 (0.25-0.5`)	CO11320	SOIL
HA-38 (0.25-0.5`)	CO11321	SOIL
HA-40 (0-0.5`)	CO11322	SOIL
DUP-13	CO11323	SOIL
TB-HL	CO11324	SOIL
TB-LL	CO11325	SOIL



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: 5 Day
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

10:10
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11308

Project ID: BRAINARD AIRPORT
 Client ID: B-135 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	1.58	0.46	mg/Kg	1	05/25/23	IE	SW6010D
Arsenic	1.45	0.93	mg/Kg	1	05/25/23	TH	SW6010D
Barium	81.0	0.46	mg/Kg	1	05/25/23	TH	SW6010D
Cadmium	2.05	0.46	mg/Kg	1	05/25/23	TH	SW6010D
Chromium	33.2	0.46	mg/Kg	1	05/25/23	TH	SW6010D
Mercury	0.40	0.03	mg/Kg	2	06/01/23	PM	SW7471B
Lead	250	4.6	mg/Kg	10	05/30/23	IE	SW6010D
Selenium	< 1.9	1.9	mg/Kg	1	05/25/23	TH	SW6010D
SPLP Chromium	< 0.010	0.010	mg/L	1	06/22/23	IE	SW6010D
SPLP Mercury	< 0.0005	0.0005	mg/L	1	06/21/23	AL1	SW7470A
SPLP Lead	0.111	0.010	mg/L	1	06/22/23	IE	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Percent Solid	77		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Mercury Digestion	Completed				05/31/23	AL/AL	SW7471B
Extraction of ETPH	Completed				06/02/23	J/F	SW3546
Soil Extraction for PCB	Completed				06/02/23	P/F	SW3546
Soil Extraction for SVOA PAH	Completed				06/02/23	H/A	SW3546
SPLP Digestion Mercury	Completed				06/21/23	ZT/W/ZT	SW1312/SW7470A
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	320	mg/Kg	5	06/07/23	JRB	CTETPH
Identification	ND		mg/Kg	5	06/07/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	50		%	5	06/07/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	83		%	5	06/07/23	JRB	50 - 150 %
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
PCB-1221	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
PCB-1232	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
PCB-1242	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
PCB-1248	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
PCB-1254	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
PCB-1260	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
PCB-1262	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
PCB-1268	ND	430	ug/Kg	10	06/05/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	89		%	10	06/05/23	SC	30 - 150 %
% DCBP (Confirmation)	92		%	10	06/05/23	SC	30 - 150 %
% TCMX	95		%	10	06/05/23	SC	30 - 150 %
% TCMX (Confirmation)	89		%	10	06/05/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.60	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromodichloromethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
Styrene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	890	ug/Kg	50	05/25/23	JLI	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	78		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	93		%	1	05/25/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99		%	50	05/25/23	JLI	70 - 130 %
% Toluene-d8 (50x)	94		%	50	05/25/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Acenaphthene	ND	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Acenaphthylene	ND	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Anthracene	ND	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Benz(a)anthracene	2000	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Benzo(a)pyrene	2500	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Benzo(b)fluoranthene	3200	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Benzo(ghi)perylene	2200	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Benzo(k)fluoranthene	1200	1000	ug/Kg	5	06/03/23	KCA	SW8270D
Chrysene	2300	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	1000	ug/Kg	5	06/03/23	KCA	SW8270D
Fluoranthene	3700	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Fluorene	ND	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	2100	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Naphthalene	ND	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Phenanthrene	1800	1500	ug/Kg	5	06/03/23	KCA	SW8270D
Pyrene	3200	1500	ug/Kg	5	06/03/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl (5x)	93		%	5	06/03/23	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	108		%	5	06/03/23	KCA	30 - 130 %
% Terphenyl-d14 (5x)	82		%	5	06/03/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

Semi-Volatile Comment:

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

12:18
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11309

Project ID: BRAINARD AIRPORT
 Client ID: B-143 (0.5-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	05/25/23	TH	SW6010D
Arsenic	3.31	0.74	mg/Kg	1	05/25/23	TH	SW6010D
Barium	72.6	0.37	mg/Kg	1	05/25/23	TH	SW6010D
Beryllium	0.51	0.30	mg/Kg	1	05/25/23	TH	SW6010D
Cadmium	1.14	0.37	mg/Kg	1	05/25/23	TH	SW6010D
Chromium	29.9	0.37	mg/Kg	1	05/25/23	TH	SW6010D
Copper	35.4	0.7	mg/kg	1	05/25/23	TH	SW6010D
Mercury	0.06	0.03	mg/Kg	2	06/01/23	PM	SW7471B
Nickel	27.4	0.37	mg/Kg	1	05/25/23	TH	SW6010D
Lead	10.7	0.37	mg/Kg	1	05/25/23	TH	SW6010D
Antimony	< 3.7	3.7	mg/Kg	1	05/25/23	TH	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	05/25/23	TH	SW6010D
Thallium	< 3.3	3.3	mg/Kg	1	05/25/23	TH	SW6010D
Vanadium	34.7	0.37	mg/Kg	1	05/25/23	TH	SW6010D
Zinc	72.0	0.7	mg/Kg	1	05/25/23	TH	SW6010D
Percent Solid	80		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Mercury Digestion	Completed				05/31/23	AL/AL	SW7471B
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for SVOA PAH	Completed				06/02/23	H/A	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	06/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	87		%	1	06/05/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	87		%	1	06/05/23	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.52	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Isopropylbenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
o-Xylene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/25/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	06/03/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	85		%	1	06/03/23	RM	30 - 130 %
% Terphenyl-d14	68		%	1	06/03/23	RM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

12:34
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11310

Project ID: BRAINARD AIRPORT
 Client ID: B-144 (0.5-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	14.3	0.43	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	81		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for SVOA PAH	Completed				06/02/23	H/A	SW3546
Total Metals Digest	Completed				05/24/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	06/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	109		%	1	06/05/23	JRB	50 - 150 %
% Terphenyl (surr)	97		%	1	06/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.55	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Bromochloromethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
m&p-Xylene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
o-Xylene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Styrene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Trichloroethene	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	5.5	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/25/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Anthracene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Chrysene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Fluoranthene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Fluorene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Naphthalene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Phenanthrene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
Pyrene	ND	280	ug/Kg	1	06/03/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	85		%	1	06/03/23	RM	30 - 130 %
% Nitrobenzene-d5	94		%	1	06/03/23	RM	30 - 130 %
% Terphenyl-d14	76		%	1	06/03/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: 5 Day
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

13:27
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11311

Project ID: BRAINARD AIRPORT
 Client ID: B-145 (0.5-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	05/25/23	TH	SW6010D
Arsenic	3.51	0.83	mg/Kg	1	05/25/23	TH	SW6010D
Barium	78.7	0.42	mg/Kg	1	05/25/23	TH	SW6010D
Beryllium	0.50	0.33	mg/Kg	1	05/25/23	TH	SW6010D
Cadmium	1.47	0.42	mg/Kg	1	05/25/23	TH	SW6010D
Chromium	31.4	0.42	mg/Kg	1	05/25/23	TH	SW6010D
Copper	41.2	0.8	mg/kg	1	05/25/23	TH	SW6010D
Mercury	0.10	0.03	mg/Kg	2	06/01/23	PM	SW7471B
Nickel	27.6	0.42	mg/Kg	1	05/25/23	TH	SW6010D
Lead	16.6	0.42	mg/Kg	1	05/25/23	TH	SW6010D
Antimony	< 4.2	4.2	mg/Kg	1	05/25/23	TH	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	05/25/23	TH	SW6010D
SPLP Copper	0.015	0.010	mg/L	1	06/22/23	IE	SW6010D
SPLP Zinc	0.018	0.010	mg/L	1	06/22/23	IE	SW6010D
Thallium	< 3.7	3.7	mg/Kg	1	05/25/23	TH	SW6010D
SPLP Metals Digestion	Completed				06/21/23	ZT/W/ZT	SW3010A
Vanadium	35.3	0.42	mg/Kg	1	05/25/23	TH	SW6010D
Zinc	134	0.8	mg/Kg	1	05/25/23	TH	SW6010D
Percent Solid	79		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Mercury Digestion	Completed				05/31/23	AL/AL	SW7471B
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for SVOA PAH	Completed				06/02/23	H/A	SW3546
SPLP Extraction for Metals	Completed				06/20/23	ZT	SW1312
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>TPH by GC (Extractable Products)</u>							
Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	06/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	06/05/23	JRB	CTETPH
<u>QA/QC Surrogates</u>							
% COD (surr)	78		%	1	06/05/23	JRB	50 - 150 %
% Terphenyl (surr)	86		%	1	06/05/23	JRB	50 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.47	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
2-Hexanone	ND	24	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	240	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromochloromethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	2.8	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
m&p-Xylene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	9.5	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	9.5	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
o-Xylene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Styrene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	9.5	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	9.5	ug/Kg	1	05/25/23	JLI	SW8260C
Trichloroethene	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	9.5	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	4.7	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/25/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	06/03/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	86		%	1	06/03/23	RM	30 - 130 %
% Nitrobenzene-d5	98		%	1	06/03/23	RM	30 - 130 %
% Terphenyl-d14	76		%	1	06/03/23	RM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date Time

05/22/23 13:30
 05/22/23 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11312

Project ID: BRAINARD AIRPORT
 Client ID: B-146 (0.5-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	21.8	0.40	mg/Kg	1	05/30/23	TH	SW6010D
Percent Solid	75		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for SVOA PAH	Completed				06/02/23	H/A	SW3546
Total Metals Digest	Completed				05/24/23	L/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	06/05/23	JRB	CTETPH
Identification	ND		mg/Kg	1	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	116		%	1	06/05/23	JRB	50 - 150 %
% Terphenyl (surr)	112		%	1	06/05/23	JRB	50 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane	ND	0.54	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Styrene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/25/23	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(a)pyrene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(b)fluoranthene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Fluoranthene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
Pyrene	ND	310	ug/Kg	1	06/03/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	06/03/23	RM	30 - 130 %
% Nitrobenzene-d5	87		%	1	06/03/23	RM	30 - 130 %
% Terphenyl-d14	70		%	1	06/03/23	RM	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/22/23
05/22/23

Time

11:36
15:49

Laboratory Data

SDG ID: GCO11308
Phoenix ID: CO11313

Project ID: BRAINARD AIRPORT
Client ID: HA-3 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.78	0.71	mg/Kg	1	05/25/23	TH	SW6010D
Lead	28.7	0.35	mg/Kg	1	05/25/23	TH	SW6010D
Percent Solid	86		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546
Soil Extraction for SVOA PAH	Completed				06/02/23	H/A	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	06/05/23	JRB	CTETPH
Identification	ND		mg/Kg	5	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	94		%	5	06/05/23	JRB	50 - 150 %
% Terphenyl (surr)	88		%	5	06/05/23	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
4,4' -DDE	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
4,4' -DDT	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
a-BHC	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Alachlor	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Aldrin	ND	3.9	ug/Kg	2	05/31/23	CK	SW8081B
b-BHC	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Chlordane	ND	39	ug/Kg	2	05/31/23	CK	SW8081B
d-BHC	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/31/23	CK	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan I	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Endrin	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
g-BHC	ND	40	ug/Kg	2	05/31/23	CK	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	05/31/23	CK	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/31/23	CK	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/31/23	CK	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	97		%	2	05/31/23	CK	30 - 150 %
% DCBP (Confirmation)	92		%	2	05/31/23	CK	30 - 150 %
% TCMX	79		%	2	05/31/23	CK	30 - 150 %
% TCMX (Confirmation)	81		%	2	05/31/23	CK	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.56	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Bromochloromethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.3	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
m&p-Xylene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	33	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
o-Xylene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Styrene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	11	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	102		%	1	05/25/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	84	ug/kg	1	05/25/23	JLI	SW8260C
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	06/03/23	RM	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	270	ug/Kg	1	06/03/23	RM	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	06/03/23	RM	SW8270D
Anthracene	ND	270	ug/Kg	1	06/03/23	RM	SW8270D
Benz(a)anthracene	1000	270	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(a)pyrene	1500	270	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(b)fluoranthene	2400	270	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(ghi)perylene	1000	270	ug/Kg	1	06/03/23	RM	SW8270D
Benzo(k)fluoranthene	890	270	ug/Kg	1	06/03/23	RM	SW8270D
Chrysene	1800	270	ug/Kg	1	06/03/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	06/03/23	RM	SW8270D
Fluoranthene	2700	270	ug/Kg	1	06/03/23	RM	SW8270D
Fluorene	ND	270	ug/Kg	1	06/03/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	1100	270	ug/Kg	1	06/03/23	RM	SW8270D
Naphthalene	ND	270	ug/Kg	1	06/03/23	RM	SW8270D
Phenanthrene	970	270	ug/Kg	1	06/03/23	RM	SW8270D
Pyrene	2300	270	ug/Kg	1	06/03/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	86		%	1	06/03/23	RM	30 - 130 %
% Nitrobenzene-d5	101		%	1	06/03/23	RM	30 - 130 %
% Terphenyl-d14	79		%	1	06/03/23	RM	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

13:55
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11314

Project ID: BRAINARD AIRPORT
 Client ID: HA-4 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.98	0.83	mg/Kg	1	05/25/23	TH	SW6010D
Lead	19.6	0.42	mg/Kg	1	05/25/23	TH	SW6010D
Percent Solid	81		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for Herbicide	Completed				05/31/23	L/D	SW3546
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546
Soil Extraction for SVOA PAH	Completed				06/02/23	H/A	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	06/01/23	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	06/01/23	JRB	SW8151A
2,4-D	ND	300	ug/Kg	10	06/01/23	JRB	SW8151A
2,4-DB	ND	3000	ug/Kg	10	06/01/23	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	06/01/23	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	06/01/23	JRB	SW8151A
Dichloroprop	ND	300	ug/Kg	10	06/01/23	JRB	SW8151A
Dinoseb	ND	300	ug/Kg	10	06/01/23	JRB	SW8151A

QA/QC Surrogates

% DCAA	94		%	10	06/01/23	JRB	30 - 150 %
% DCAA (Confirmation)	79		%	10	06/01/23	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	650	300	mg/Kg	5	06/07/23	JRB	CTETPH
Identification	**		mg/Kg	5	06/07/23	JRB	CTETPH

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% COD (surr)	105		%	5	06/07/23	JRB	50 - 150 %
% Terphenyl (surr)	104		%	5	06/07/23	JRB	50 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
4,4' -DDE	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
4,4' -DDT	9.0	8.0	ug/Kg	2	05/30/23	AW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	05/30/23	AW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	05/30/23	AW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	05/30/23	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	05/30/23	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/30/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	116		%	2	05/30/23	AW	30 - 150 %
% DCBP (Confirmation)	81		%	2	05/30/23	AW	30 - 150 %
% TCMX	64		%	2	05/30/23	AW	30 - 150 %
% TCMX (Confirmation)	72		%	2	05/30/23	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.59	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
o-Xylene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
Styrene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	440	ug/Kg	50	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	870	ug/Kg	50	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	79		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/25/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	97		%	50	05/25/23	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	05/25/23	JLI	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	88	ug/kg	1	05/25/23	JLI	SW8260C
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Acenaphthene	ND	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Acenaphthylene	ND	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Anthracene	ND	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Benz(a)anthracene	1900	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Benzo(a)pyrene	3300	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Benzo(b)fluoranthene	5100	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Benzo(ghi)perylene	2300	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Benzo(k)fluoranthene	1800	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Chrysene	3400	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	1000	ug/Kg	5	06/03/23	KCA	SW8270D
Fluoranthene	4800	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Fluorene	ND	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	2300	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Naphthalene	ND	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Phenanthrene	1500	1400	ug/Kg	5	06/03/23	KCA	SW8270D
Pyrene	3800	1400	ug/Kg	5	06/03/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl (5x)	78		%	5	06/03/23	KCA	30 - 130 %
% Nitrobenzene-d5 (5x)	91		%	5	06/03/23	KCA	30 - 130 %
% Terphenyl-d14 (5x)	69		%	5	06/03/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

Semi-Volatile Comment:

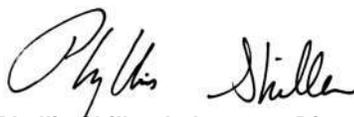
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

11:26
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11315

Project ID: BRAINARD AIRPORT
 Client ID: HA-6 (0-0.5`)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.64	0.80	mg/Kg	1	05/25/23	TH	SW6010D
Lead	33.1	0.40	mg/Kg	1	05/25/23	TH	SW6010D
Percent Solid	77		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for Herbicide	Completed				05/25/23	L/D	SW3546
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	160	ug/Kg	10	05/31/23	JRB	SW8151A
2,4,5-TP (Silvex)	ND	160	ug/Kg	10	05/31/23	JRB	SW8151A
2,4-D	ND	320	ug/Kg	10	05/31/23	JRB	SW8151A
2,4-DB	ND	3200	ug/Kg	10	05/31/23	JRB	SW8151A
Dalapon	ND	160	ug/Kg	10	05/31/23	JRB	SW8151A
Dicamba	ND	160	ug/Kg	10	05/31/23	JRB	SW8151A
Dichloroprop	ND	320	ug/Kg	10	05/31/23	JRB	SW8151A
Dinoseb	ND	320	ug/Kg	10	05/31/23	JRB	SW8151A

QA/QC Surrogates

% DCAA	92		%	10	05/31/23	JRB	30 - 150 %
% DCAA (Confirmation)	88		%	10	05/31/23	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	320	mg/Kg	5	06/05/23	JRB	CTETPH
Identification	ND		mg/Kg	5	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	50		%	5	06/05/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	72		%	5	06/05/23	JRB	50 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
4,4' -DDE	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
4,4' -DDT	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
a-BHC	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Alachlor	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Aldrin	ND	4.3	ug/Kg	2	05/30/23	CK	SW8081B
b-BHC	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Chlordane	ND	43	ug/Kg	2	05/30/23	CK	SW8081B
d-BHC	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Endrin	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
g-BHC	ND	1.7	ug/Kg	2	05/30/23	CK	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	05/30/23	CK	SW8081B
Methoxychlor	ND	43	ug/Kg	2	05/30/23	CK	SW8081B
Toxaphene	ND	170	ug/Kg	2	05/30/23	CK	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	71		%	2	05/30/23	CK	30 - 150 %
% DCBP (Confirmation)	77		%	2	05/30/23	CK	30 - 150 %
% TCMX	63		%	2	05/30/23	CK	30 - 150 %
% TCMX (Confirmation)	74		%	2	05/30/23	CK	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.63	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
Bromochloromethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.8	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
m&p-Xylene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	38	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
o-Xylene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
Styrene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	400	ug/Kg	50	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	790	ug/Kg	50	05/25/23	JLI	SW8260C
Trichloroethene	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	13	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	6.3	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	93		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	79		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/25/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	100		%	50	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	98		%	50	05/25/23	JLI	70 - 130 %
% Toluene-d8 (50x)	94		%	50	05/25/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/22/23
05/22/23

Time

11:14
15:49

Laboratory Data

SDG ID: GCO11308
Phoenix ID: CO11316

Project ID: BRAINARD AIRPORT
Client ID: HA-8 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.68	0.74	mg/Kg	1	05/25/23	TH	SW6010D
Lead	31.4	0.37	mg/Kg	1	05/25/23	TH	SW6010D
Percent Solid	81		%		05/22/23	cv	SW846-%Solid
Field Extraction	Completed				05/22/23		SW5035A
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for Herbicide	Completed				05/25/23	L/D	SW3546
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546
Total Metals Digest	Completed				05/22/23	B/AG	SW3050B

Chlorinated Herbicides

2,4,5-T	ND	150	ug/Kg	10	05/31/23	JRB	SW8151A
2,4,5-TP (Silvex)	ND	150	ug/Kg	10	05/31/23	JRB	SW8151A
2,4-D	ND	310	ug/Kg	10	05/31/23	JRB	SW8151A
2,4-DB	ND	3100	ug/Kg	10	05/31/23	JRB	SW8151A
Dalapon	ND	150	ug/Kg	10	05/31/23	JRB	SW8151A
Dicamba	ND	150	ug/Kg	10	05/31/23	JRB	SW8151A
Dichloroprop	ND	310	ug/Kg	10	05/31/23	JRB	SW8151A
Dinoseb	ND	310	ug/Kg	10	05/31/23	JRB	SW8151A

QA/QC Surrogates

% DCAA	78		%	10	05/31/23	JRB	30 - 150 %
% DCAA (Confirmation)	67		%	10	05/31/23	JRB	30 - 150 %

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	310	mg/Kg	5	06/05/23	JRB	CTETPH
Identification	ND		mg/Kg	5	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	88		%	5	06/05/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	109		%	5	06/05/23	JRB	50 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
4,4' -DDE	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
4,4' -DDT	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
a-BHC	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Alachlor	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Aldrin	ND	4.1	ug/Kg	2	05/30/23	CK	SW8081B
b-BHC	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Chlordane	ND	41	ug/Kg	2	05/30/23	CK	SW8081B
d-BHC	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Endrin	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
g-BHC	ND	1.6	ug/Kg	2	05/30/23	CK	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	05/30/23	CK	SW8081B
Methoxychlor	ND	41	ug/Kg	2	05/30/23	CK	SW8081B
Toxaphene	ND	160	ug/Kg	2	05/30/23	CK	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	95		%	2	05/30/23	CK	30 - 150 %
% DCBP (Confirmation)	83		%	2	05/30/23	CK	30 - 150 %
% TCMX	79		%	2	05/30/23	CK	30 - 150 %
% TCMX (Confirmation)	93		%	2	05/30/23	CK	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.59	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
4-Chlorotoluene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	05/25/23	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	05/25/23	JLI	SW8260C
Acrylonitrile	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Benzene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Bromobenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
Bromochloromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Bromoform	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Bromomethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Chlorobenzene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Chloroform	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Chloromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	05/25/23	JLI	SW8260C
Dibromomethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Ethylbenzene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
m&p-Xylene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Naphthalene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
o-Xylene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
Styrene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	580	ug/Kg	50	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Toluene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Total Xylenes	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	1200	ug/Kg	50	05/25/23	JLI	SW8260C
Trichloroethene	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorofluoromethane	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	12	ug/Kg	1	05/25/23	JLI	SW8260C
Vinyl chloride	ND	5.9	ug/Kg	1	05/25/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	96		%	1	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene	84		%	1	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/25/23	JLI	70 - 130 %
% Toluene-d8	99		%	1	05/25/23	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	05/25/23	JLI	70 - 130 %
% Bromofluorobenzene (50x)	100		%	50	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	99		%	50	05/25/23	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	05/25/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:

There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

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If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

14:35
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11317

Project ID: BRAINARD AIRPORT
 Client ID: HA-11 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		05/22/23	cv	SW846-%Solid
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for PCB	Completed				06/02/23	P/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	3600	550	mg/Kg	10	06/05/23	JRB	CTETPH
Identification	**		mg/Kg	10	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	Diluted Out		%	10	06/05/23	JRB	50 - 150 %
% Terphenyl (surr)	Diluted Out		%	10	06/05/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	06/06/23	SC	SW8082A

QA/QC Surrogates

% DCBP	73		%	10	06/06/23	SC	30 - 150 %
% DCBP (Confirmation)	74		%	10	06/06/23	SC	30 - 150 %
% TCMX	84		%	10	06/06/23	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	06/06/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

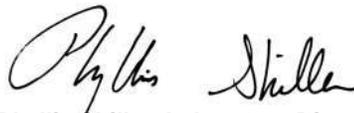
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

14:55
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11318

Project ID: BRAINARD AIRPORT
 Client ID: HA-13 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		05/22/23	cv	SW846-%Solid
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for PCB	Completed				06/02/23	P/F	SW3546

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	300	mg/Kg	5	06/05/23	JRB	CTETPH
Identification	ND		mg/Kg	5	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	114		%	5	06/05/23	JRB	50 - 150 %
% Terphenyl (surr)	86		%	5	06/05/23	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	390	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	06/06/23	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	06/06/23	SC	SW8082A

QA/QC Surrogates

% DCBP	74		%	10	06/06/23	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	06/06/23	SC	30 - 150 %
% TCMX	78		%	10	06/06/23	SC	30 - 150 %
% TCMX (Confirmation)	74		%	10	06/06/23	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: 5 Day
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/22/23
05/22/23

Time

14:45
15:49

Laboratory Data

SDG ID: GCO11308
Phoenix ID: CO11319

Project ID: BRAINARD AIRPORT
Client ID: HA-34 (0.25-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		05/22/23	cv	SW846-%Solid
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546
SPLP Extraction for Organics	Completed				06/20/23	ZT	SW1312
SPLP Pesticides Ext.	Completed				06/21/23	S/S	SW3510C

Pesticides

4,4' -DDD	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
4,4' -DDE	79	9.0	ug/Kg	2	05/30/23	AW	SW8081B
4,4' -DDT	100	9.0	ug/Kg	2	05/30/23	AW	SW8081B
a-BHC	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Alachlor	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Aldrin	ND	4.5	ug/Kg	2	05/30/23	AW	SW8081B
b-BHC	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Chlordane	150	45	ug/Kg	2	05/30/23	AW	SW8081B
d-BHC	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Dieldrin	15	4.5	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan I	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan II	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan sulfate	ND	15	ug/Kg	2	05/30/23	AW	SW8081B
Endrin	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Endrin aldehyde	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Endrin ketone	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor epoxide	ND	9.0	ug/Kg	2	05/30/23	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	05/30/23	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	05/30/23	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	05/30/23	AW	30 - 150 %
% DCBP (Confirmation)	58		%	2	05/30/23	AW	30 - 150 %
% TCMX	68		%	2	05/30/23	AW	30 - 150 %
% TCMX (Confirmation)	73		%	2	05/30/23	AW	30 - 150 %
<u>SPLP Pesticides</u>							
4,4' -DDD	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
a-BHC	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Alachlor	ND	0.009	ug/L	1	06/22/23	AW	SW8081B
Aldrin	ND	0.003	ug/L	1	06/22/23	AW	SW8081B
b-BHC	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Chlordane	ND	0.047	ug/L	1	06/22/23	AW	SW8081B
d-BHC	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	06/22/23	AW	SW8081B
Endosulfan I	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Endosulfan II	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Endosulfan sulfate	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Endrin	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Endrin aldehyde	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Endrin Ketone	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
g-BHC	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Heptachlor	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Heptachlor epoxide	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Methoxychlor	ND	0.005	ug/L	1	06/22/23	AW	SW8081B
Toxaphene	ND	0.19	ug/L	1	06/22/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	31		%	1	06/22/23	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	16		%	1	06/22/23	AW	30 - 150 %
%TCMX (Surrogate Rec)	70		%	1	06/22/23	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	36		%	1	06/22/23	AW	30 - 150 %

3

3 = This parameter exceeds laboratory specified limits.

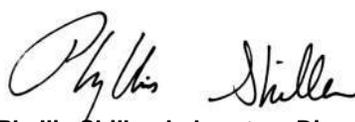
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/22/23
05/22/23

Time

14:50
15:49

Laboratory Data

SDG ID: GCO11308
Phoenix ID: CO11320

Project ID: BRAINARD AIRPORT
Client ID: HA-35 (0.25-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	70		%		05/22/23	cv	SW846-%Solid
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546

Pesticides

4,4' -DDD	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
4,4' -DDE	27	9.3	ug/Kg	2	05/30/23	AW	SW8081B
4,4' -DDT	27	9.3	ug/Kg	2	05/30/23	AW	SW8081B
a-BHC	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Alachlor	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Aldrin	ND	4.7	ug/Kg	2	05/30/23	AW	SW8081B
b-BHC	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Chlordane	ND	47	ug/Kg	2	05/30/23	AW	SW8081B
d-BHC	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Dieldrin	8.4	4.7	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan I	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan II	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan sulfate	ND	15	ug/Kg	2	05/30/23	AW	SW8081B
Endrin	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Endrin aldehyde	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Endrin ketone	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
g-BHC	ND	1.9	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor epoxide	ND	9.3	ug/Kg	2	05/30/23	AW	SW8081B
Methoxychlor	ND	47	ug/Kg	2	05/30/23	AW	SW8081B
Toxaphene	ND	190	ug/Kg	2	05/30/23	AW	SW8081B

QA/QC Surrogates

% DCBP	87		%	2	05/30/23	AW	30 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	81		%	2	05/30/23	AW	30 - 150 %
% TCMX	80		%	2	05/30/23	AW	30 - 150 %
% TCMX (Confirmation)	86		%	2	05/30/23	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

05/22/23
 05/22/23

Time

14:20
 15:49

Laboratory Data

SDG ID: GCO11308
 Phoenix ID: CO11321

Project ID: BRAINARD AIRPORT
 Client ID: HA-38 (0.25-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		05/22/23	cv	SW846-%Solid
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546

Pesticides

4,4' -DDD	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
4,4' -DDE	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
4,4' -DDT	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
a-BHC	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Alachlor	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Aldrin	ND	3.9	ug/Kg	2	05/30/23	CK	SW8081B
b-BHC	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Chlordane	ND	39	ug/Kg	2	05/30/23	CK	SW8081B
d-BHC	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Endrin	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/30/23	CK	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	05/30/23	CK	SW8081B
Methoxychlor	ND	39	ug/Kg	2	05/30/23	CK	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/30/23	CK	SW8081B

QA/QC Surrogates

% DCBP	117		%	2	05/30/23	CK	30 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	70		%	2	05/30/23	CK	30 - 150 %
% TCMX	80		%	2	05/30/23	CK	30 - 150 %
% TCMX (Confirmation)	80		%	2	05/30/23	CK	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: 5 Day
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/22/23
05/22/23

Time

14:13
15:49

Laboratory Data

SDG ID: GCO11308
Phoenix ID: CO11322

Project ID: BRAINARD AIRPORT
Client ID: HA-40 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		05/22/23	cv	SW846-%Solid
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546
SPLP Extraction for Organics	Completed				06/20/23	ZT	SW1312
SPLP Pesticides Ext.	Completed				06/21/23	S/S	SW3510C

Pesticides

4,4' -DDD	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
4,4' -DDE	77	42	ug/Kg	10	05/31/23	AW	SW8081B
4,4' -DDT	81	8.5	ug/Kg	2	05/30/23	AW	SW8081B
a-BHC	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	05/30/23	AW	SW8081B
b-BHC	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Chlordane	170	42	ug/Kg	2	05/30/23	AW	SW8081B
d-BHC	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Dieldrin	30	4.2	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Endrin	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	05/30/23	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	05/30/23	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	05/30/23	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% DCBP	99		%	2	05/30/23	AW	30 - 150 %
% DCBP (Confirmation)	91		%	2	05/30/23	AW	30 - 150 %
% TCMX	78		%	2	05/30/23	AW	30 - 150 %
% TCMX (Confirmation)	77		%	2	05/30/23	AW	30 - 150 %
<u>SPLP Pesticides</u>							
4,4' -DDD	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
4,4' -DDE	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
4,4' -DDT	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
a-BHC	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Alachlor	ND	0.020	ug/L	2	06/22/23	PS	SW8081B
Aldrin	ND	0.006	ug/L	2	06/22/23	PS	SW8081B
b-BHC	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Chlordane	ND	0.10	ug/L	2	06/22/23	PS	SW8081B
d-BHC	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Dieldrin	ND	0.004	ug/L	2	06/22/23	PS	SW8081B
Endosulfan I	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endosulfan II	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endosulfan sulfate	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endrin	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endrin aldehyde	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endrin Ketone	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
g-BHC	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Heptachlor	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Heptachlor epoxide	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Methoxychlor	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Toxaphene	ND	0.40	ug/L	2	06/22/23	PS	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	37		%	2	06/22/23	PS	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	30		%	2	06/22/23	PS	30 - 150 %
%TCMX (Surrogate Rec)	75		%	2	06/22/23	PS	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	125		%	2	06/22/23	PS	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
 If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
 The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.


Phyllis Shiller, Laboratory Director
June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: 5 Day
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/22/23
05/22/23

Time

14:36
15:49

Laboratory Data

SDG ID: GCO11308
Phoenix ID: CO11323

Project ID: BRAINARD AIRPORT
Client ID: DUP-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		05/22/23	cv	SW846-%Solid
Extraction of ETPH	Completed				06/04/23	Q/J/A	SW3546
Soil Extraction for Pesticide	Completed				05/26/23	/A	SW3546
SPLP Extraction for Organics	Completed				06/20/23	ZT	SW1312
SPLP Pesticides Ext.	Completed				06/21/23	S/S	SW3510C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	1800	290	mg/Kg	5	06/05/23	JRB	CTETPH
Identification	**		mg/Kg	5	06/05/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	59		%	5	06/05/23	JRB	50 - 150 %
% Terphenyl (surr)	54		%	5	06/05/23	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
4,4' -DDE	180	76	ug/Kg	20	05/31/23	AW	SW8081B
4,4' -DDT	620	76	ug/Kg	20	05/31/23	AW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Alachlor	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	05/30/23	AW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	05/30/23	AW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	05/30/23	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	05/30/23	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	05/30/23	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	52		%	2	05/30/23	AW	30 - 150 %
% DCBP (Confirmation)	61		%	2	05/30/23	AW	30 - 150 %
% TCMX	51		%	2	05/30/23	AW	30 - 150 %
% TCMX (Confirmation)	68		%	2	05/30/23	AW	30 - 150 %
<u>SPLP Pesticides</u>							
4,4' -DDD	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
4,4' -DDE	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
4,4' -DDT	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
a-BHC	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Alachlor	ND	0.020	ug/L	2	06/22/23	PS	SW8081B
Aldrin	ND	0.006	ug/L	2	06/22/23	PS	SW8081B
b-BHC	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Chlordane	ND	0.10	ug/L	2	06/22/23	PS	SW8081B
d-BHC	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Dieldrin	ND	0.004	ug/L	2	06/22/23	PS	SW8081B
Endosulfan I	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endosulfan II	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endosulfan sulfate	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endrin	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endrin aldehyde	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Endrin Ketone	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
g-BHC	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Heptachlor	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Heptachlor epoxide	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Methoxychlor	ND	0.010	ug/L	2	06/22/23	PS	SW8081B
Toxaphene	ND	0.40	ug/L	2	06/22/23	PS	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	37		%	2	06/22/23	PS	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	30		%	2	06/22/23	PS	30 - 150 %
%TCMX (Surrogate Rec)	64		%	2	06/22/23	PS	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	64		%	2	06/22/23	PS	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

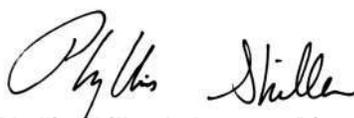
Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/22/23
05/22/23

Time

15:49

Laboratory Data

SDG ID: GCO11308
Phoenix ID: CO11324

Project ID: BRAINARD AIRPORT
Client ID: TB-HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction Completed 05/22/23 SW5035A

Volatiles

1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	05/25/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	05/25/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dibromoethane	ND	25	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dichloroethane	ND	200	ug/Kg	50	05/25/23	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	05/25/23	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/25/23	JLI	SW8260C
Acetone	ND	5000	ug/Kg	50	05/25/23	JLI	SW8260C
Acrylonitrile	ND	100	ug/Kg	50	05/25/23	JLI	SW8260C
Benzene	ND	200	ug/Kg	50	05/25/23	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Bromodichloromethane	ND	210	ug/Kg	50	05/25/23	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Dibromochloromethane	ND	100	ug/Kg	50	05/25/23	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/25/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	05/25/23	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/25/23	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/25/23	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	05/25/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	05/25/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	97		%	50	05/25/23	JLI	70 - 130 %
% Dibromofluoromethane (50x)	96		%	50	05/25/23	JLI	70 - 130 %
% Toluene-d8 (50x)	100		%	50	05/25/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 28, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: SOIL
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

05/22/23
05/22/23

Time

15:49

Laboratory Data

SDG ID: GCO11308
Phoenix ID: CO11325

Project ID: BRAINARD AIRPORT
Client ID: TB-LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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Field Extraction	Completed				05/22/23		SW5035A
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Volatiles

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dibromoethane	ND	0.50	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	05/24/23	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/24/23	JLI	SW8260C
Acetone	ND	250	ug/Kg	1	05/24/23	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	05/24/23	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/24/23	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	10	ug/Kg	1	05/24/23	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	05/24/23	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	05/24/23	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	96		%	1	05/24/23	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/24/23	JLI	70 - 130 %
% Toluene-d8	101		%	1	05/24/23	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 28, 2023

QA/QC Data

SDG I.D.: GCO11308

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 680053 (mg/kg), QC Sample No: CO10386 2X (CO11308, CO11309, CO11311)

Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	113	108	4.5	96.7	91.2	5.9	70 - 130	30
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 683376 (mg/L), QC Sample No: CO11308 (CO11308)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	101			92.2			80 - 120	20
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 678942 (mg/kg), QC Sample No: CO10949 (CO11308, CO11309, CO11311, CO11313, CO11314, CO11315, CO11316)

ICP Metals - Soil

Antimony	BRL	3.3	<3.9	<4.1	NC	105	103	1.9	86.0			75 - 125	35
Arsenic	BRL	0.67	4.33	4.40	1.60	104	101	2.9	93.7			75 - 125	35
Barium	BRL	0.33	57.5	65.3	12.7	109	103	5.7	>130			75 - 125	35
Beryllium	BRL	0.27	0.58	0.51	NC	105	103	1.9	89.3			75 - 125	35
Cadmium	BRL	0.33	0.64	0.61	NC	119	110	7.9	94.8			75 - 125	35
Chromium	BRL	0.33	12.7	18.9	39.2	108	104	3.8	94.4			75 - 125	35
Copper	BRL	0.67	23.9	21.2	12.0	104	105	1.0	96.0			75 - 125	35
Lead	BRL	0.33	15.9	15.6	1.90	104	101	2.9	96.7			75 - 125	35
Nickel	BRL	0.33	10.2	11.8	14.5	106	102	3.8	91.5			75 - 125	35
Selenium	BRL	1.3	<1.6	<1.6	NC	106	104	1.9	93.0			75 - 125	35
Silver	BRL	0.33	<0.39	<0.41	NC	92.7	90.4	2.5	83.2			75 - 125	35
Thallium	BRL	3.0	<3.6	<3.7	NC	112	104	7.4	95.4			75 - 125	35
Vanadium	BRL	0.33	26.4	24.7	6.70	108	106	1.9	95.7			75 - 125	35
Zinc	BRL	0.67	39.9	38.6	3.30	110	109	0.9	101			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 679344 (mg/kg), QC Sample No: CO11310 (CO11310, CO11312)

ICP Metals - Soil

Lead	BRL	0.33	14.3	16.7	15.5	106	99.0	6.8	98.5			75 - 125	35
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 683384 (mg/L), QC Sample No: CO20137 (CO11308, CO11311)

ICP Metals - SPLP Extraction

Chromium	BRL	0.010	<0.010	<0.010	NC	102	104	1.9	100			80 - 120	20
Copper	BRL	0.010	<0.010	<0.010	NC	104	106	1.9	103			80 - 120	20
Lead	BRL	0.010	<0.010	<0.010	NC	104	106	1.9	101			80 - 120	20
Zinc	BRL	0.010	<0.010	<0.010	NC	103	104	1.0	100			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Data

SDG I.D.: GCO11308

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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QA/QC Report

June 28, 2023

QA/QC Data

SDG I.D.: GCO11308

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 680612 (mg/Kg), QC Sample No: CO11309 (CO11309, CO11310, CO11311, CO11312, CO11313, CO11314, CO11315, CO11316, CO11317, CO11318, CO11323)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	95	96	1.0	108	102	5.7	60 - 120	30
% COD (surr)	98	%	120	81	38.8	94	89	5.5	50 - 150	30
% Terphenyl (surr)	95	%	89	72	21.1	82	76	7.6	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 680539 (mg/Kg), QC Sample No: CO14875 (CO11308)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	88	100	12.8	96	90	6.5	60 - 120	30
% COD (surr)	59	%	87	84	3.5	87	79	9.6	50 - 150	30
% Terphenyl (surr)	68	%	73	81	10.4	78	73	6.6	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 679546 (ug/Kg), QC Sample No: CO10652 10X (CO11315, CO11316)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	56	51	9.3	81	74	9.0	40 - 140	30
2,4,5-TP (Silvex)	ND	130	63	62	1.6	83	70	17.0	40 - 140	30
2,4-D	ND	250	61	46	28.0	85	70	19.4	40 - 140	30
2,4-DB	ND	2500	50	43	15.1	85	72	16.6	40 - 140	30
Dalapon	ND	130	75	81	7.7	66	59	11.2	40 - 140	30
Dicamba	ND	130	103	107	3.8	96	125	26.2	40 - 140	30
Dichloroprop	ND	130	69	69	0.0	100	80	22.2	40 - 140	30
Dinoseb	ND	130	101	108	6.7	88	78	12.0	40 - 140	30
% DCAA (Surrogate Rec)	81	%	86	85	1.2	113	106	6.4	30 - 150	30
% DCAA (Surrogate Rec) (Confirm)	84	%	90	88	2.2	94	86	8.9	30 - 150	30

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 680150 (ug/Kg), QC Sample No: CO14272 10X (CO11314)

Chlorinated Herbicides - Soil

2,4,5-T	ND	130	90	68	27.8	81	72	11.8	40 - 140	30
2,4,5-TP (Silvex)	ND	130	87	72	18.9	85	67	23.7	40 - 140	30
2,4-D	ND	250	74	55	29.5	66	56	16.4	40 - 140	30
2,4-DB	ND	2500	61	46	28.0	72	49	38.0	40 - 140	30
Dalapon	ND	130	68	92	30.0	45	47	4.3	40 - 140	30
Dicamba	ND	130	96	109	12.7	77	73	5.3	40 - 140	30
Dichloroprop	ND	130	84	73	14.0	85	76	11.2	40 - 140	30
Dinoseb	ND	130	78	115	38.3	61	58	5.0	40 - 140	30
% DCAA (Surrogate Rec)	86	%	107	97	9.8	115	98	16.0	30 - 150	30

QA/QC Data

SDG I.D.: GCO11308

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% DCAA (Surrogate Rec) (Confirm	94	%	123	97	23.6	90	72	22.2	30 - 150	30

Comment:

Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

QA/QC Batch 680544 (ug/Kg), QC Sample No: CO17187 2X (CO11308, CO11317, CO11318)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	76	84	10.0	80	87	8.4	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	92	87	5.6	84	88	4.7	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	99	%	100	96	4.1	92	97	5.3	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	94	%	97	102	5.0	99	104	4.9	30 - 150	30
% TCMX (Surrogate Rec)	77	%	77	90	15.6	85	93	9.0	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	81	%	83	85	2.4	79	88	10.8	30 - 150	30

QA/QC Batch 679727 (ug/Kg), QC Sample No: CO10878 2X (CO11313, CO11314, CO11315, CO11316, CO11319, CO11320, CO11321, CO11322, CO11323)

Pesticides - Soil

4,4' -DDD	ND	1.7	87	89	2.3	92	76	19.0	40 - 140	30
4,4' -DDE	ND	1.7	85	90	5.7	90	76	16.9	40 - 140	30
4,4' -DDT	ND	1.7	83	84	1.2	88	77	13.3	40 - 140	30
a-BHC	ND	1.0	75	77	2.6	76	64	17.1	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	83	85	2.4	85	74	13.8	40 - 140	30
b-BHC	ND	1.0	82	84	2.4	82	70	15.8	40 - 140	30
Chlordane	ND	33	90	92	2.2	94	82	13.6	40 - 140	30
d-BHC	ND	3.3	80	81	1.2	83	72	14.2	40 - 140	30
Dieldrin	ND	1.0	88	91	3.4	89	77	14.5	40 - 140	30
Endosulfan I	ND	3.3	95	100	5.1	92	78	16.5	40 - 140	30
Endosulfan II	ND	3.3	91	97	6.4	95	82	14.7	40 - 140	30
Endosulfan sulfate	ND	3.3	90	93	3.3	94	81	14.9	40 - 140	30
Endrin	ND	3.3	90	93	3.3	94	80	16.1	40 - 140	30
Endrin aldehyde	ND	3.3	82	86	4.8	71	61	15.2	40 - 140	30
Endrin ketone	ND	3.3	84	91	8.0	93	77	18.8	40 - 140	30
g-BHC	ND	1.0	101	102	1.0	104	89	15.5	40 - 140	30
Heptachlor	ND	3.3	85	87	2.3	87	76	13.5	40 - 140	30
Heptachlor epoxide	ND	3.3	83	85	2.4	85	74	13.8	40 - 140	30
Methoxychlor	ND	3.3	76	90	16.9	91	75	19.3	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	81	%	79	82	3.7	84	73	14.0	30 - 150	30
% DCBP (Confirmation)	82	%	76	78	2.6	85	72	16.6	30 - 150	30
% TCMX	73	%	72	74	2.7	73	65	11.6	30 - 150	30
% TCMX (Confirmation)	79	%	76	81	6.4	81	71	13.2	30 - 150	30

QA/QC Batch 683396 (ug/L), QC Sample No: CO20130 (CO11319, CO11322, CO11323)

Pesticides

4,4' -DDD	ND	0.003	72	80	10.5				40 - 140	20
4,4' -DDE	ND	0.003	64	71	10.4				40 - 140	20
4,4' -DDT	ND	0.003	61	66	7.9				40 - 140	20

QA/QC Data

SDG I.D.: GCO11308

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
a-BHC	ND	0.002	61	65	6.3				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	48	53	9.9				40 - 140	20
b-BHC	ND	0.002	60	65	8.0				40 - 140	20
Chlordane	ND	0.050	58	62	6.7				40 - 140	20
d-BHC	ND	0.005	47	50	6.2				40 - 140	20
Dieldrin	ND	0.002	65	65	0.0				40 - 140	20
Endosulfan I	ND	0.005	64	67	4.6				40 - 140	20
Endosulfan II	ND	0.005	63	69	9.1				40 - 140	20
Endosulfan sulfate	ND	0.005	93	92	1.1				40 - 140	20
Endrin	ND	0.005	61	66	7.9				40 - 140	20
Endrin aldehyde	ND	0.005	67	64	4.6				40 - 140	20
Endrin ketone	ND	0.005	67	74	9.9				40 - 140	20
g-BHC	ND	0.002	55	59	7.0				40 - 140	20
Heptachlor	ND	0.005	58	62	6.7				40 - 140	20
Heptachlor epoxide	ND	0.005	63	67	6.2				40 - 140	20
Methoxychlor	ND	0.005	90	95	5.4				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	79	%	67	68	1.5				30 - 150	20
% DCBP (Confirmation)	46	%	80	82	2.5				30 - 150	20
% TCMX	71	%	59	60	1.7				30 - 150	20
% TCMX (Confirmation)	42	%	65	68	4.5				30 - 150	20

QA/QC Batch 680410 (ug/kg), QC Sample No: CO11310 (CO11308, CO11309, CO11310, CO11311, CO11312, CO11313, CO11314)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	69	74	7.0	76	76	0.0	40 - 140	30
Acenaphthene	ND	230	78	86	9.8	88	88	0.0	30 - 130	30
Acenaphthylene	ND	230	74	80	7.8	82	83	1.2	40 - 140	30
Anthracene	ND	230	80	90	11.8	88	89	1.1	40 - 140	30
Benz(a)anthracene	ND	230	80	90	11.8	88	83	5.8	40 - 140	30
Benzo(a)pyrene	ND	230	92	102	10.3	95	91	4.3	40 - 140	30
Benzo(b)fluoranthene	ND	230	85	92	7.9	88	84	4.7	40 - 140	30
Benzo(ghi)perylene	ND	230	87	97	10.9	91	88	3.4	40 - 140	30
Benzo(k)fluoranthene	ND	230	80	86	7.2	83	80	3.7	40 - 140	30
Chrysene	ND	230	83	96	14.5	94	91	3.2	40 - 140	30
Dibenz(a,h)anthracene	ND	230	89	98	9.6	95	92	3.2	40 - 140	30
Fluoranthene	ND	230	75	85	12.5	81	79	2.5	40 - 140	30
Fluorene	ND	230	81	89	9.4	89	91	2.2	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	87	98	11.9	93	88	5.5	40 - 140	30
Naphthalene	ND	230	74	80	7.8	80	80	0.0	40 - 140	30
Phenanthrene	ND	230	83	93	11.4	93	90	3.3	40 - 140	30
Pyrene	ND	230	82	94	13.6	93	91	2.2	30 - 130	30
% 2-Fluorobiphenyl	83	%	71	76	6.8	76	77	1.3	30 - 130	30
% Nitrobenzene-d5	93	%	83	88	5.8	91	92	1.1	30 - 130	30
% Terphenyl-d14	75	%	70	77	9.5	77	77	0.0	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 679694H (ug/kg), QC Sample No: CO10895 50X (CO11308 (50X) , CO11314 (50X) , CO11315 (50X) , CO11316 (50X))

Volatiles - Soil (High Level)

1,1,2,2-Tetrachloroethane	ND	250	102	105	2.9	87	99	12.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	110	110	0.0	87	102	15.9	70 - 130	30

QA/QC Data

SDG I.D.: GCO11308

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
1,2,3-Trichloropropane	ND	250	96	99	3.1	82	95	14.7	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	106	106	0.0	85	98	14.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	103	103	0.0	86	97	12.0	70 - 130	30
1,2-Dichlorobenzene	ND	250	104	105	1.0	88	98	10.8	70 - 130	30
1,3,5-Trimethylbenzene	ND	250	102	103	1.0	88	98	10.8	70 - 130	30
1,3-Dichlorobenzene	ND	250	101	102	1.0	86	96	11.0	70 - 130	30
1,4-Dichlorobenzene	ND	250	103	103	0.0	86	96	11.0	70 - 130	30
2-Chlorotoluene	ND	250	102	103	1.0	87	98	11.9	70 - 130	30
2-Isopropyltoluene	ND	250	104	105	1.0	88	100	12.8	70 - 130	30
4-Chlorotoluene	ND	250	103	104	1.0	86	98	13.0	70 - 130	30
Bromobenzene	ND	250	104	105	1.0	87	99	12.9	70 - 130	30
Hexachlorobutadiene	ND	250	109	111	1.8	88	102	14.7	70 - 130	30
Isopropylbenzene	ND	250	106	106	0.0	92	102	10.3	70 - 130	30
Naphthalene	ND	250	113	114	0.9	92	108	16.0	70 - 130	30
n-Butylbenzene	ND	250	113	114	0.9	94	106	12.0	70 - 130	30
n-Propylbenzene	ND	250	104	108	3.8	90	103	13.5	70 - 130	30
p-Isopropyltoluene	ND	250	109	111	1.8	93	105	12.1	70 - 130	30
sec-Butylbenzene	ND	250	107	108	0.9	91	102	11.4	70 - 130	30
tert-Butylbenzene	ND	250	106	107	0.9	91	102	11.4	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	119	118	0.8	91	109	18.0	70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	102	103	1.0	104	104	0.0	70 - 130	30
% Bromofluorobenzene	100	%	99	100	1.0	103	100	3.0	70 - 130	30
% Dibromofluoromethane	102	%	94	95	1.1	102	97	5.0	70 - 130	30
% Toluene-d8	94	%	101	102	1.0	101	101	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 679511 (ug/kg), QC Sample No: CO11456 (CO11308, CO11309, CO11310, CO11311, CO11312, CO11313, CO11314, CO11315, CO11316, CO11325)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	106	111	4.6	104	109	4.7	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	102	110	7.5	104	107	2.8	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	98	101	3.0	96	100	4.1	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	96	99	3.1	96	97	1.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	99	106	6.8	101	104	2.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	120	128	6.5	132	134	1.5	70 - 130	30
1,1-Dichloropropene	ND	5.0	98	105	6.9	100	103	3.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	102	108	5.7	96	101	5.1	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	104	109	4.7	102	104	1.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	97	101	4.0	89	94	5.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	100	105	4.9	95	101	6.1	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	96	103	7.0	88	94	6.6	70 - 130	30
1,2-Dibromoethane	ND	5.0	101	107	5.8	99	103	4.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	102	106	3.8	97	101	4.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	107	111	3.7	107	110	2.8	70 - 130	30
1,2-Dichloropropane	ND	5.0	94	98	4.2	94	96	2.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	103	109	5.7	101	106	4.8	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	101	104	2.9	95	100	5.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	102	106	3.8	101	104	2.9	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	101	105	3.9	96	100	4.1	70 - 130	30
1,4-dioxane	ND	100	111	103	7.5	102	105	2.9	70 - 130	30
2,2-Dichloropropane	ND	5.0	100	107	6.8	99	101	2.0	70 - 130	30

m

QA/QC Data

SDG I.D.: GCO11308

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
2-Chlorotoluene	ND	5.0	104	109	4.7	101	106	4.8	70 - 130	30	
2-Hexanone	ND	25	90	95	5.4	85	88	3.5	70 - 130	30	
2-Isopropyltoluene	ND	5.0	103	107	3.8	99	105	5.9	70 - 130	30	
4-Chlorotoluene	ND	5.0	103	107	3.8	100	104	3.9	70 - 130	30	
4-Methyl-2-pentanone	ND	25	90	96	6.5	88	91	3.4	70 - 130	30	
Acetone	ND	10	108	113	4.5	98	99	1.0	70 - 130	30	
Acrylonitrile	ND	5.0	88	94	6.6	85	87	2.3	70 - 130	30	
Benzene	ND	1.0	94	99	5.2	96	99	3.1	70 - 130	30	
Bromobenzene	ND	5.0	103	107	3.8	100	104	3.9	70 - 130	30	
Bromochloromethane	ND	5.0	103	109	5.7	103	105	1.9	70 - 130	30	
Bromodichloromethane	ND	5.0	100	105	4.9	99	103	4.0	70 - 130	30	
Bromoform	ND	5.0	103	107	3.8	94	99	5.2	70 - 130	30	
Bromomethane	ND	5.0	122	131	7.1	147	149	1.4	70 - 130	30	l,m
Carbon Disulfide	ND	5.0	111	119	7.0	121	124	2.4	70 - 130	30	
Carbon tetrachloride	ND	5.0	106	110	3.7	102	107	4.8	70 - 130	30	
Chlorobenzene	ND	5.0	101	107	5.8	101	105	3.9	70 - 130	30	
Chloroethane	ND	5.0	114	119	4.3	129	134	3.8	70 - 130	30	m
Chloroform	ND	5.0	102	110	7.5	105	107	1.9	70 - 130	30	
Chloromethane	ND	5.0	89	99	10.6	105	108	2.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	102	106	3.8	99	102	3.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	97	101	4.0	96	98	2.1	70 - 130	30	
Dibromochloromethane	ND	3.0	104	108	3.8	99	103	4.0	70 - 130	30	
Dibromomethane	ND	5.0	103	107	3.8	102	103	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	88	95	7.7	125	128	2.4	70 - 130	30	
Ethylbenzene	ND	1.0	98	104	5.9	98	103	5.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	92	100	8.3	85	95	11.1	70 - 130	30	
Isopropylbenzene	ND	1.0	103	109	5.7	100	106	5.8	70 - 130	30	
m&p-Xylene	ND	2.0	99	106	6.8	98	103	5.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	91	96	5.3	88	89	1.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	95	100	5.1	95	96	1.0	70 - 130	30	
Methylene chloride	ND	5.0	111	119	7.0	116	120	3.4	70 - 130	30	
Naphthalene	ND	5.0	105	111	5.6	97	103	6.0	70 - 130	30	
n-Butylbenzene	ND	1.0	103	108	4.7	98	106	7.8	70 - 130	30	
n-Propylbenzene	ND	1.0	102	107	4.8	98	104	5.9	70 - 130	30	
o-Xylene	ND	2.0	96	102	6.1	96	100	4.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	104	109	4.7	99	106	6.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	104	110	5.6	101	107	5.8	70 - 130	30	
Styrene	ND	5.0	92	97	5.3	90	95	5.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	104	110	5.6	101	106	4.8	70 - 130	30	
Tetrachloroethene	ND	5.0	95	100	5.1	94	98	4.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	93	98	5.2	90	92	2.2	70 - 130	30	
Toluene	ND	1.0	94	100	6.2	95	99	4.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	97	104	7.0	100	102	2.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	100	103	3.0	99	101	2.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	100	106	5.8	95	98	3.1	70 - 130	30	
Trichloroethene	ND	5.0	101	106	4.8	99	102	3.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	128	138	7.5	146	148	1.4	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	5.0	114	122	6.8	125	127	1.6	70 - 130	30	
Vinyl chloride	ND	5.0	105	113	7.3	122	125	2.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	100	101	1.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	97	%	100	101	1.0	100	100	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	103	103	0.0	101	100	1.0	70 - 130	30	
% Toluene-d8	101	%	99	99	0.0	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCO11308

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
Comment:											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.											
QA/QC Batch 679511H (ug/kg), QC Sample No: CO11456 50X (CO11324 (50X))											
<u>Volatiles - Soil (High Level)</u>											
1,1,1,2-Tetrachloroethane	ND	250	110	108	1.8	107	102	4.8	70 - 130	30	
1,1,1-Trichloroethane	ND	250	108	107	0.9	105	103	1.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	102	99	3.0	99	97	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	250	95	93	2.1	96	91	5.3	70 - 130	30	
1,1-Dichloroethane	ND	250	104	103	1.0	104	100	3.9	70 - 130	30	
1,1-Dichloroethene	ND	250	129	128	0.8	137	132	3.7	70 - 130	30	m
1,1-Dichloropropene	ND	250	110	108	1.8	106	104	1.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	118	115	2.6	101	108	6.7	70 - 130	30	
1,2,3-Trichloropropane	ND	250	105	105	0.0	105	103	1.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	118	113	4.3	106	107	0.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	110	107	2.8	106	104	1.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	98	96	2.1	88	87	1.1	70 - 130	30	
1,2-Dibromoethane	ND	250	103	103	0.0	101	98	3.0	70 - 130	30	
1,2-Dichlorobenzene	ND	250	110	107	2.8	106	103	2.9	70 - 130	30	
1,2-Dichloroethane	ND	250	107	105	1.9	108	104	3.8	70 - 130	30	
1,2-Dichloropropane	ND	250	97	94	3.1	96	92	4.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	113	110	2.7	109	107	1.9	70 - 130	30	
1,3-Dichlorobenzene	ND	250	111	108	2.7	106	103	2.9	70 - 130	30	
1,3-Dichloropropane	ND	250	104	103	1.0	104	100	3.9	70 - 130	30	
1,4-Dichlorobenzene	ND	250	112	110	1.8	108	105	2.8	70 - 130	30	
2,2-Dichloropropane	ND	250	107	105	1.9	101	98	3.0	70 - 130	30	
2-Chlorotoluene	ND	250	113	110	2.7	108	105	2.8	70 - 130	30	
2-Hexanone	ND	1300	95	96	1.0	88	87	1.1	70 - 130	30	
2-Isopropyltoluene	ND	250	112	109	2.7	108	105	2.8	70 - 130	30	
4-Chlorotoluene	ND	250	114	110	3.6	109	107	1.9	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	88	89	1.1	88	83	5.8	70 - 130	30	
Acetone	ND	500	83	94	12.4	92	86	6.7	70 - 130	30	
Acrylonitrile	ND	250	85	87	2.3	86	84	2.4	70 - 130	30	
Benzene	ND	250	100	98	2.0	100	96	4.1	70 - 130	30	
Bromobenzene	ND	250	109	106	2.8	105	102	2.9	70 - 130	30	
Bromochloromethane	ND	250	102	101	1.0	102	99	3.0	70 - 130	30	
Bromodichloromethane	ND	250	100	97	3.0	99	95	4.1	70 - 130	30	
Bromoform	ND	250	100	99	1.0	94	92	2.2	70 - 130	30	
Bromomethane	ND	250	91	92	1.1	100	101	1.0	70 - 130	30	
Carbon Disulfide	ND	250	112	110	1.8	118	115	2.6	70 - 130	30	
Carbon tetrachloride	ND	250	111	111	0.0	107	105	1.9	70 - 130	30	
Chlorobenzene	ND	250	110	108	1.8	107	104	2.8	70 - 130	30	
Chloroethane	ND	250	27	26	3.8	30	28	6.9	70 - 130	30	l,m
Chloroform	ND	250	105	105	0.0	106	103	2.9	70 - 130	30	
Chloromethane	ND	250	98	97	1.0	104	102	1.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	102	102	0.0	101	100	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	97	95	2.1	96	92	4.3	70 - 130	30	
Dibromochloromethane	ND	150	103	101	2.0	100	96	4.1	70 - 130	30	
Dibromomethane	ND	250	101	100	1.0	101	96	5.1	70 - 130	30	
Dichlorodifluoromethane	ND	250	99	97	2.0	121	120	0.8	70 - 130	30	
Ethylbenzene	ND	250	109	106	2.8	105	102	2.9	70 - 130	30	
Hexachlorobutadiene	ND	250	115	112	2.6	105	104	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCO11308

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Isopropylbenzene	ND	250	112	108	3.6	107	103	3.8	70 - 130	30
m&p-Xylene	ND	250	111	109	1.8	108	105	2.8	70 - 130	30
Methyl ethyl ketone	ND	250	89	90	1.1	90	85	5.7	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	95	96	1.0	94	92	2.2	70 - 130	30
Methylene chloride	ND	250	112	114	1.8	121	114	6.0	70 - 130	30
Naphthalene	ND	250	116	114	1.7	95	104	9.0	70 - 130	30
n-Butylbenzene	ND	250	123	118	4.1	116	114	1.7	70 - 130	30
n-Propylbenzene	ND	250	114	110	3.6	108	105	2.8	70 - 130	30
o-Xylene	ND	250	104	104	0.0	101	99	2.0	70 - 130	30
p-Isopropyltoluene	ND	250	118	115	2.6	111	109	1.8	70 - 130	30
sec-Butylbenzene	ND	250	116	113	2.6	110	108	1.8	70 - 130	30
Styrene	ND	250	99	98	1.0	97	93	4.2	70 - 130	30
tert-Butylbenzene	ND	250	112	110	1.8	107	105	1.9	70 - 130	30
Tetrachloroethene	ND	250	104	102	1.9	103	97	6.0	70 - 130	30
Tetrahydrofuran (THF)	ND	250	90	92	2.2	89	86	3.4	70 - 130	30
Toluene	ND	250	100	98	2.0	100	95	5.1	70 - 130	30
trans-1,2-Dichloroethene	ND	250	106	120	12.4	105	102	2.9	70 - 130	30
trans-1,3-Dichloropropene	ND	250	98	96	2.1	98	94	4.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	103	101	2.0	98	96	2.1	70 - 130	30
Trichloroethene	ND	250	108	106	1.9	105	100	4.9	70 - 130	30
Trichlorofluoromethane	ND	250	22	22	0.0	25	24	4.1	70 - 130	30
Trichlorotrifluoroethane	ND	250	129	128	0.8	135	130	3.8	70 - 130	30
Vinyl chloride	ND	250	104	103	1.0	112	110	1.8	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	100	99	1.0	70 - 130	30
% Bromofluorobenzene	97	%	101	102	1.0	99	100	1.0	70 - 130	30
% Dibromofluoromethane	96	%	97	99	2.0	99	100	1.0	70 - 130	30
% Toluene-d8	100	%	97	97	0.0	99	98	1.0	70 - 130	30

l,m
m

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
 m = This parameter is outside laboratory MS/MSD specified recovery limits.
 r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 June 28, 2023

Wednesday, June 28, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO11308 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO11308	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2500	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2100	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2500	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3200	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Benzo(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2000	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2200	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	2300	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2100	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2000	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2500	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3200	1500	1000	1000	ug/Kg
CO11308	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1200	1000	1000	1000	ug/Kg
CO11313	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	1500	270	1000	1000	ug/Kg
CO11313	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CO11313	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1500	270	1000	1000	ug/Kg
CO11313	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2400	270	1000	1000	ug/Kg
CO11313	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1800	270	1000	1000	ug/Kg
CO11313	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CO11313	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2400	270	1000	1000	ug/Kg
CO11313	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1500	270	1000	1000	ug/Kg
CO11314	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	3300	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2300	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3300	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1900	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5100	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2300	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3400	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2300	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1900	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3300	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1800	1400	1000	1000	ug/Kg
CO11314	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	5100	1400	1000	1000	ug/Kg
CO11314	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	650	300	500	500	mg/Kg
CO11317	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC I/C (mg/kg) / Pest/PCB/TPH	3600	550	2500	2500	mg/Kg
CO11317	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	3600	550	500	500	mg/Kg
CO11317	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR GB (mg/kg) / Pesticides/TPH	3600	550	2500	2500	mg/Kg
CO11319	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	79	9.0	20	20	ug/Kg
CO11319	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	100	9.0	20	20	ug/Kg
CO11319	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	150	45	66	66	ug/Kg

Wednesday, June 28, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO11308 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO11319	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	150	45	66	66	ug/Kg
CO11319	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	15	4.5	7	7	ug/Kg
CO11320	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	27	9.3	20	20	ug/Kg
CO11320	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	27	9.3	20	20	ug/Kg
CO11320	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	8.4	4.7	7	7	ug/Kg
CO11322	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	77	42	20	20	ug/Kg
CO11322	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	81	8.5	20	20	ug/Kg
CO11322	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	170	42	66	66	ug/Kg
CO11322	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	170	42	66	66	ug/Kg
CO11322	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	30	4.2	7	7	ug/Kg
CO11323	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1800	290	500	500	mg/Kg
CO11323	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	620	76	20	20	ug/Kg
CO11323	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	180	76	20	20	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO11308-CO11325

Sampling Date(s): 5/22/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8082, 8151, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>VPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, Herbicide Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Wednesday, June 28, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO11308

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 680612 (Samples: CO11309, CO11310, CO11311, CO11312, CO11313, CO11314, CO11315, CO11316, CO11317, CO11318, CO11323): -----

The LCS/LCSD RPD exceeds the method criteria for one surrogates. No significant variability is suspected. (% COD (surr))

Instrument:

AU-FID1 06/05/23-1

Jeff Bucko, Chemist 06/05/23

CO11317 (10X), CO11323 (5X)

The initial calibration (ET_411AI) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (605A003) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 06/06/23-1

Jeff Bucko, Chemist 06/06/23

CO11308 (5X), CO11314 (5X)

The initial calibration (ETPH510I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (606A003_3) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 06/05/23-1

Jeff Bucko, Chemist 06/05/23

CO11313 (5X), CO11315 (5X), CO11316 (5X), CO11318 (5X)

The initial calibration (ET_425AI) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (605A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 06/05/23-1

Jeff Bucko, Chemist 06/05/23

CO11309 (1X), CO11310 (1X), CO11311 (1X), CO11312 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (605A003) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO11309, CO11310

Preceding CC 605A003 - None.

Succeeding CC 605A028 - % Cod (surr) 31%H (30%)

Samples: CO11311, CO11312

Preceding CC 605A028 - % Cod (surr) 31%H (30%)

Succeeding CC 605A040 - % Cod (surr) 58%H (30%), % Terphenyl (surr) 53%H (30%), ETPH (C9-C36) 51%H (30%)

QC (Batch Specific):

Batch 680539 (CO14875)



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO11308

ETPH Narration

CO11308

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QC (Site Specific):

Batch 680612 (CO11309)

CO11309, CO11310, CO11311, CO11312, CO11313, CO11314, CO11315, CO11316, CO11317, CO11318, CO11323

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: % COD (surr)(38.8%)

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Herbicide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 680150 (Samples: CO11314): -----

The LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (2,4-DB)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2,4,5-T, Dalapon, Dicamba, Dinoseb)

Instrument:

AU-ECD2 05/30/23-1

Jeff Bucko, Chemist 05/30/23

CO11315 (10X), CO11316 (10X)

The initial calibration (HRB504AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (HRB504BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO11315, CO11316

Preceding CC 530B026 - 2,4,5-TP (10) 18%H (15%)

Succeeding CC 530B038 - None.

AU-ECD2 06/01/23-1

Jeff Bucko, Chemist 06/01/23

CO11314 (10X)

The initial calibration (HRB504AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (HRB504BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO11314

Preceding CC 601B003 - None.



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO11308

Herbicide Narration

Succeeding CC 601B015 - 2,4,5-TP (10) 16%H (15%)

QC (Batch Specific):

Batch 679546 (CO10652)

CO11315, CO11316

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

Batch 680150 (CO14272)

CO11314

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: Dinoseb(38.3%)
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/01/23 10:56

Alexander Latka, Paul Marshall, Chemist 06/01/23

CO11308, CO11309, CO11311

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 06/21/23 09:00

Alexander Latka, Paul Marshall, Chemist 06/21/23

CO11308

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 680053 (CO10386)

CO11308, CO11309, CO11311



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Certification Report

June 28, 2023

SDG I.D.: GCO11308

Mercury Narration

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QC (Site Specific):

Batch 683376 (CO11308)

CO11308

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 05/30/23 09:30

Tina Hall, Chemist 05/30/23

CO11310, CO11312

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 06/21/23 12:50

Ian Enders, Chemist 06/21/23

CO11308, CO11311

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/24/23 09:15

Ian Enders, Tina Hall, Chemist 05/24/23

CO11308, CO11309, CO11311, CO11313, CO11314, CO11315, CO11316

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 05/30/23 09:21

Ian Enders, Tina Hall, Chemist 05/30/23

CO11308

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.



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Certification Report

June 28, 2023

SDG I.D.: GCO11308

ICP Metals Narration

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 678942 (CO10949)

CO11308, CO11309, CO11311, CO11313, CO11314, CO11315, CO11316

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 683384 (CO20137)

CO11308, CO11311

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 679344 (CO11310)

CO11310, CO11312

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD3 06/05/23-1

Saadia Chudary, Chemist 06/05/23

CO11308 (10X), CO11318 (10X)

The initial calibration (PC0421AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0421BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

AU-ECD5 06/06/23-1

Saadia Chudary, Chemist 06/06/23

CO11317 (10X)

The initial calibration (PC0526AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0526BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO11317

Preceding CC 606B003 - None.

Succeeding CC 606B024 - DCBP SURR -31%L (15%), PCB 1260 -16%L (%)



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RCP Certification Report

June 28, 2023

SDG I.D.: GCO11308

PCB Narration

QC (Batch Specific):

Batch 680544 (CO17187)

CO11308, CO11317, CO11318

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD33 05/30/23-1 Adam Werner, Chemist 05/30/23

CO11313 (2X), CO11314 (2X), CO11322 (2X), CO11323 (2X)

The initial calibration (PS0523AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0523BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO11313

Preceding CC 530B041 - None.

Succeeding CC 530B049 - Endrin Ketone 26%H (20%)

AU-ECD33 05/31/23-1 Adam Werner, Chemist 05/31/23

CO11322 (10X), CO11323 (20X)

The initial calibration (PS0420AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0420BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds: None.

AU-ECD33 06/22/23-1 Adam Werner, Chemist 06/22/23

CO11319 (1X), CO11322 (2X), CO11323 (2X)

The initial calibration (PS0619AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0619BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO11322

Preceding CC 622A015 - Endosulfan II -21%L (20%)

Succeeding CC 622A029 - Endrin aldehyde 27%H (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

Samples: CO11319, CO11323

Preceding CC 622A029 - Endrin aldehyde 27%H (20%)

Succeeding CC 622A037 - None.

AU-ECD4 05/30/23-1 Adam Werner, Chemist 05/30/23



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 28, 2023

SDG I.D.: GCO11308

PEST Narration

CO11315 (2X), CO11316 (2X), CO11319 (2X), CO11320 (2X), CO11321 (2X)

The initial calibration (AC0515AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (AC0515BI) RSD for the compound list was less than 20% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed 15% except for the following compounds: None.

The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CO11315, CO11316, CO11319, CO11320, CO11321

Preceding CC 530B029 - None.

Succeeding CC 530B043 - 4,4'-DDT -24%L (20%), Methoxychlor -23%L (20%)

A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

QC (Batch Specific):

Batch 679727 (CO10878)

CO11313, CO11314, CO11315, CO11316, CO11319, CO11320, CO11321, CO11322, CO11323

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Batch 683396 (CO20130)

CO11319, CO11322, CO11323

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM19 06/02/23-1

Matt Richard, Chemist 06/02/23

CO11308 (5X), CO11309 (1X), CO11310 (1X), CO11311 (1X), CO11312 (1X), CO11313 (1X), CO11314 (5X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_BN_0530):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0602_03-19_BN_0530):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 28, 2023

SDG I.D.: GCO11308

SVOA Narration

The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 680410 (CO11310)

CO11308, CO11309, CO11310, CO11311, CO11312, CO11313, CO11314

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 679511 (Samples: CO11308, CO11309, CO11310, CO11311, CO11312, CO11313, CO11314, CO11315, CO11316, CO11325): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane, Trichlorofluoromethane)

QC Batch 679511H: -----

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM03 05/24/23-3

Jane Li, Chemist 05/24/23

CO11308 (1X), CO11309 (1X), CO11310 (1X), CO11311 (1X), CO11312 (1X), CO11313 (1X), CO11314 (1X), CO11315 (1X), CO11316 (1X), CO11324 (50X), CO11325 (1X)

Initial Calibration Evaluation (CHEM03/VT-L051223):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloroethane 22% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Tetrachloroethene 0.163 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0524_21-VT-L051223):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM18 05/25/23-1

Jane Li, Chemist 05/25/23

CO11308 (50X), CO11314 (50X), CO11315 (50X), CO11316 (50X)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 28, 2023

SDG I.D.: GCO11308

VOA Narration

Initial Calibration Evaluation (CHEM18/VT-M052423):

95% of target compounds met criteria.

The following compounds had %RSDs >20%: trans-1,4-dichloro-2-butene 34% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM18/0525_02-VT-M052423):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 679511 (CO11456) CHEM03 5/24/2023-3

CO11308(1X), CO11309(1X), CO11310(1X), CO11311(1X), CO11312(1X), CO11313(1X), CO11314(1X), CO11315(1X), CO11316(1X), CO11325(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(131%), Trichlorofluoromethane(138%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 679511H (CO11456) CHEM03 5/24/2023-3

CO11324(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(27%), Trichlorofluoromethane(22%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(26%), Trichlorofluoromethane(22%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 679694H (CO10895) CHEM18 5/25/2023-1

CO11308(50X), CO11314(50X), CO11315(50X), CO11316(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.5C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: Tighe & Bond, Inc.
Address: 213 Court Street, Suite 1100
 Middletown, CT

Project: Brainard Airport
Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
Invoice to: Tighe and Bond Westfield
QUOTE # DAS Pricing

Project P.O.: 12-5182-001

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: MPaulsson@TigheBond.com

Cooler: Yes No
 Coolant: IPK ICE
 Temp 1.5 °C Pg 1 of 2

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 5/22/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SF=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil
 B=Bulk L=Liquid X = (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
11308	B-135(0-2')	S	5/22/23	1010
11309	B-143(0.5-1')			1218
11310	B-144(0.5-1')			1234
11311	B-145(0.5-1')			1327
11312	B-146(0.5-1')			1330
11313	HA-3(0-0.5')			1136
11314	HA-4(0-0.5')			1355
11315	HA-6(0-0.5')			1126
11316	HA-8(0-0.5')			1114
11317	HA-11(0-0.5')			1435
11318	HA-13(0-0.5')			1455
11319	HA-34(0.25-0.5')			1445

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 5/22/23 1530
 Date: 5/22/23 1549

Comments, Special Requirements or Regulations:
 Do not run HA-3(0-0.5') for Herbicides
 Do not run HA-11 & HA-13 for Pesticides

Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other

*MMSMSD are considered site samples and will be billed as such in accordance with the prices quoted. *SURCHARGE APPLIES

Analysis Request	CT	MA	RI	Time
1,4-Dioxane	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1530
VOCs (EPA 8260/835)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1549
PHAs (EPA 8270)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Total PCBs & Metals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Total RSR 15 Metals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Total Lead	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Total Arsenic	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PCBs (8092)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Soil VOCs (8081)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
GL Soil container (8)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
40 ml VOA Vial (As Et) HCl	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
GL Amber 1000ml (As Et) H2SO4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PL As Et (250ml) (500ml) (1000ml)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PL H2SO4 (250ml) (500ml) (1000ml)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PL HNO3 250ml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PL HNO3 250ml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Bacteria Bottle as is	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Data Format:
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata

Data Package:
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

MA:
 MCP Certification
 GW-1
 GW-2
 GW-3
 S-1 GW-1
 S-2 GW-1
 S-3 GW-1
 SW Protection

CT:
 RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

RI:
 (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

State where samples were collected: CT
 *SURCHARGE APPLIES



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes No
 Coolant: IPK IC
 Temp 11.5 °C Pg 02 of 02

Data Delivery/Contact Options:

Fax:
 Phone:
 Email: MPaulsson@TigheBcnd.com

Project: Brainard Airport Project P.O.: 12-5182-001
 Report to: Jame Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe and Bond Westfield
 QUOTE # DAS Pricing

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 5/12/13

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
11320	HA-35 (0.25-0.5')	S	5/12/13	1450
11321	HA-38 (0.25-0.5')	↓		1420
11322	HA-40 (0-0.5')	↓		1413
11323	DUP-13	S	↓	1436
11324	TB-1L			
11325	TB-1L		5/12/13	

Analysis Request	CT EPA 8270	PAHs (EPA 8270)	Total PCBs (EPA 8270)	Total RSR 13 Metals	Total Lead	Total Arsenic	Total Residues (208)	GL VOA Metals (1 method) (2) HFO	GL Soil Containr (8) or	40 ml VOA Met (1 Asie) HCl	PL Asie (1250ml) 1500ml	PL HFO3 250ml	PL HFO4 250ml	PL NAOH 250ml	Bacteria Bottle with	Bacteria Bottle as is
CT EPA (PPT METHOD)	X															
VOCs (EPA 8260/835)																
1,4 Dioxane																
PCBs (208)	X															
GL VOA Metals (208)																
GL Soil Containr (8) or																
40 ml VOA Met (1 Asie) HCl																
PL Asie (1250ml) 1500ml																
PL HFO3 250ml																
PL HFO4 250ml																
PL NAOH 250ml																
Bacteria Bottle with																
Bacteria Bottle as is																

Relinquished by: [Signature] Accepted by: [Signature] Date: 5/12/13 Time: 15:36
 Date: 5/12/13 Time: 15:49
 Turnaround Time:
 1 Day*
 2 Days*
 3 Days*
 Standard-7 day
 Other
 * SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

RI (Residential) Direct Exposure
 (Comm/Industrial) Direct Exposure
 GA Leachability
 GB Leachability
 GA-GW Objectives
 GB-GW Objectives

CT RCP Cert
 GW Protection
 SW Protection
 GA Mobility
 GB Mobility
 Residential DEC
 I/C DEC
 Other

MA MCP Certification
 GW-1
 GW-2
 GW-3
 S-1 GW-1
 S-1 GW-2
 S-1 GW-3
 S-2 GW-1
 S-2 GW-2
 S-2 GW-3
 S-3 GW-1
 S-3 GW-2
 S-3 GW-3
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 Other-Envirodata

Data Package
 Tier II Checklist
 Full Data Package*
 Phoenix Std Report
 Other

* SURCHARGE APPLIES

State where samples were collected: CT

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Wednesday, May 24, 2023 11:00 AM
To: Sarah Bell
Subject: FW: Phoenix Labs - GCO11308, BRAINARD AIRPORT - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Hi Sarah,
Can you add lead analysis to the following samples?

CO11310	B-144 (0.5-1')
CO11312	B-146 (0.5-1')

Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

www.tighebond.com | halvorsondesign.com



From: SampleReceiving@phoenixlabs.com <SampleReceiving@phoenixlabs.com>
Sent: Monday, May 22, 2023 9:37 PM
To: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: Phoenix Labs - GCO11308, BRAINARD AIRPORT - COC Acknowledgement

[Caution - External Sender]

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

Purchase Order#: 12-5182-001

Samples Will Be Disposed After: 30 Days

GCO11308 Criteria:
SOIL(18): CT GBM (GB Mobility), CT I/C (I/C Dec), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed. Criteria added post-reporting requires re-evaluation of data and possible re-analysis therefore charges may apply. Project objectives not communicated at time of submittal may not be achieved.

Delivery group GCO11308 (BRAINARD AIRPORT) has been logged in for the following samples:

Phoenix Id	Client Id
CO11308	B-135 (0-2')
CO11309	B-143 (0.5-1')
CO11310	B-144 (0.5-1')
CO11311	B-145 (0.5-1')
CO11312	B-146 (0.5-1')
CO11313	HA-3 (0-0.5')
CO11314	HA-4 (0-0.5')
CO11315	HA-6 (0-0.5')
CO11316	HA-8 (0-0.5')
CO11317	HA-11 (0-0.5')
CO11318	HA-13 (0-0.5')

CO11319	HA-34 (0.25-0.5')
CO11320	HA-35 (0.25-0.5')
CO11321	HA-38 (0.25-0.5')
CO11322	HA-40 (0-0.5')
CO11323	DUP-13
CO11324	TB-HL
CO11325	TB-LL

This SDG has been logged in for Standard 7 business day turn-around time.

The samples were received at 1.5C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Thank you for your business,

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc'd: JTolsen@tighebond.com; jlliby@tighebond.com; cwatts@tighebond.com; MPaulsson@TigheBond.com; jjackson@tighebond.com

Sarah Bell

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:39 AM
To: Shannon Wilhelm; Sarah Bell; Jill L. Libby
Subject: RE: SPLP Analysis

Yes, that is fine. Thanks,

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484

www.tighebond.com | halvorsondesign.com



From: Shannon Wilhelm <shannon@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:37 AM
To: Mark Paulsson <MPaulsson@TigheBond.com>; Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Subject: RE: SPLP Analysis

[Caution - External Sender]

Also, I just realized the SPLP HG would be past holding time too. Okay to proceed?

Shannon Wilhelm
Client Services Representative
Phoenix Environmental Laboratories
587 East Middle Turnpike

Manchester CT 06040
860-645-1102

From: Mark Paulsson <MPaulsson@TigheBond.com>
Sent: Tuesday, June 20, 2023 10:28 AM
To: Sarah Bell <sarah@phoenixlabs.com>; Jill L. Libby <JLLibby@tigheBond.com>
Cc: Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

Yes, please do. Thanks!

Mark

Mark Paulsson

Project Environmental Scientist II



m. 203.216.3139

1000 Bridgeport Avenue, 3rd Floor, Shelton, CT 06484
w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Tuesday, June 20, 2023 10:26 AM
To: Jill L. Libby <JLLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>; Shannon Wilhelm <shannon@phoenixlabs.com>
Subject: RE: SPLP Analysis

[**Caution - External Sender**]

SPLP Pesticides are past holding time do you still want to run?

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
[Website: www.phoenixlabs.com](http://www.phoenixlabs.com)

From: Jill L. Libby <JLLibby@tigheBond.com>
Sent: Tuesday, June 20, 2023 9:52 AM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

Thanks Sarah,
Could I please get the following SPLP analysis added with 5-day TAT?

Jill

SPLP Chromium (Total)	B-43	CN94966
SPLP Lead	B-43	CN94966
SPLP Mercury	B-43	CN94966
SPLP Lead	HA-1	CO00632
SPLP Lead	HA-5	CO00634
SPLP Lead	HA-9	CO00636
SPLP Lead	HA-10	CO00637
SPLP Lead	HA-44	CO00644
SPLP Lead	HA-46	CO00646
SPLP Lead	HA-47	CO00647
SPLP Vanadium	HA-39	CO00651
SPLP Copper	HA-24	CO01220
SPLP Lead	HA-24	CO01220
SPLP Zinc	HA-24	CO01220

SPLP Zinc	HA-25	CO01221
SPLP Lead	HA-26	CO01222
SPLP Pesticides	HA-26	CO01222
SPLP Lead	HA-28	CO01224
SPLP Lead	HA-29	CO01225
SPLP Lead	HA-30	CO01226
SPLP Lead	HA-31	CO01227
SPLP Lead	HA-32	CO01228
SPLP Pesticides	HA-32	CO01228
SPLP Barium	B-88	CO08010
SPLP Beryllium	B-88	CO08010
SPLP Nickel	B-88	CO08010
SPLP Vanadium	B-88	CO08010
SPLP Barium	DUP-8	CO08011
SPLP Beryllium	DUP-8	CO08011
SPLP Nickel	DUP-8	CO08011
SPLP Vanadium	DUP-8	CO08011
SPLP Barium	B-90	CO08015
SPLP Barium	B-92	CO08016
SPLP Beryllium	B-92	CO08016
SPLP Chromium (Total)	B-92	CO08016
SPLP Nickel	B-92	CO08016
SPLP Vanadium	B-92	CO08016
SPLP Copper	B-108	CO09181
SPLP Vanadium	B-108	CO09181
SPLP Barium	B-122	CO10278
SPLP Chromium (Total)	B-122	CO10278
SPLP Barium	B-123	CO10279
SPLP Mercury	B-123	CO10279
SPLP Chromium (Total)	B-127	CO10282
SPLP Copper	B-127	CO10282
SPLP Nickel	B-127	CO10282
SPLP Chromium (Total)	B-135	CO11308

SPLP Lead	B-135	CO11308
SPLP Mercury	B-135	CO11308
SPLP Copper	B-145	CO11311
SPLP Zinc	B-145	CO11311
SPLP Pesticides	HA-34	CO11319
SPLP Pesticides	HA-40	CO11322
SPLP Pesticides	DUP-13	CO11323

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby *(she/her/hers)*

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090

w: tighebond.com | halvorsondesign.com



From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Friday, June 16, 2023 4:06 PM
To: Jill L. Libby <JLibby@tigheBond.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: RE: SPLP Analysis

[**Caution - External Sender**]

We should have the rest there are only like 3 we won't have I put NO in the box

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
860-812-0270
[Website: www.phoenixlabs.com](http://www.phoenixlabs.com)

From: Jill L. Libby <JLibby@tigheBond.com>
Sent: Friday, June 16, 2023 12:43 PM
To: Sarah Bell <sarah@phoenixlabs.com>
Cc: Mark Paulsson <MPaulsson@TigheBond.com>
Subject: SPLP Analysis

Sarah,
We are thinking of running the following samples for some SPLP metals. Could you please let us know if you have the following samples still? If you, we will let you know which metals/pests to run on which samples.
Thanks,
Jill

ID	lab ID	Still have?
B-108	CO09181	
B-112	CN92792	NO
B-122	CO10278	
B-123	CO10279	
B-127	CO10282	
B-135	CO11308	
B-145	CO11311	
B-3	CN93805	NO
B-43	CN94966	
B-88	CO08010	
B-90	CO08015	
B-92	CO08016	

B-93	CN93820	NO
DUP-13	CO11323	
DUP-8	CO08011	
HA-1	CO00632	
HA-10	CO00637	
HA-24	CO01220	
HA-25	CO01221	
HA-26	CO01222	
HA-26	CO01222	
HA-28	CO01224	
HA-29	CO01225	
HA-30	CO01226	
HA-31	CO01227	
HA-32	CO01228	
HA-32	CO01228	
HA-34	CO11319	
HA-39	CO00651	
HA-40	CO11322	
HA-44	CO00644	
HA-46	CO00646	
HA-47	CO00647	
HA-5	CO00634	
HA-9	CO00636	

Please note that I am on intermittent Maternity Leave and will be working Tuesday, Thursday, and Friday.

Jill Libby (she/her/hers)

Senior Environmental Data Management Specialist



o. 781.708.9828 | m. 315.436.8260

One University Avenue, Suite #100, Westwood, MA 02090
w: tighebond.com | halvorsondesign.com





Friday, June 30, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO32465
Sample ID#s: CO32465 - CO32466

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 30, 2023

SDG I.D.: GCO32465

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
HA-42 (0-0.5`)	CO32465	SOIL
FIELD BLANK	CO32466	WATER



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

06/20/23
 06/20/23

Time

7:05
 15:35

Laboratory Data

SDG ID: GCO32465
 Phoenix ID: CO32465

Project ID: BRAINARD AIRPORT
 Client ID: HA-42 (0-0.5')

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS CT DEEP (5)	Completed					06/26/23	***	EPA 537m	C
<u>PFAS CT DEEP (5)</u>									
Perfluoroheptanoic Acid (PFHpA)	ND	0.243	0.0443	ng/g	1	06/27/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.243	0.0302	ng/g	1	06/27/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.243	0.0582	ng/g	1	06/27/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.76	0.243	0.0426	ng/g	1	06/27/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.243	0.0751	ng/g	1	06/27/23	***	EPA 537m	C
Total PFAS (5)	1.760	0.243	0.243	ng/g	1	06/27/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>									
% M3PFHxS	143			%	1	06/27/23	***	25 - 150 %	C
% M4PFHpA	111			%	1	06/27/23	***	25 - 150 %	C
% M8PFOA	193			%	1	06/27/23	***	25 - 150 %	C,3
% M8PFOS	129			%	1	06/27/23	***	25 - 150 %	C
% M9PFNA	150			%	1	06/27/23	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 30, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 30, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

06/20/23
 06/20/23

Time

7:06
 15:35

Laboratory Data

SDG ID: GCO32465
 Phoenix ID: CO32466

Project ID: BRAINARD AIRPORT
 Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
PFAS (CT)	Completed					06/27/23	***	EPA 537m	C

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	ND	1.89	0.601	ng/L	1	06/28/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.89	0.266	ng/L	1	06/28/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.89	0.544	ng/L	1	06/28/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	1.89	0.277	ng/L	1	06/28/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	1.89	0.503	ng/L	1	06/28/23	***	EPA 537m	C
Total PFAS (5)	ND	1.89	1.89	ng/L	1	06/28/23	***	EPA 537m	C

QA/QC Surrogates

% d3-N-MeFOSAA	158			%	1	06/28/23	***	25 - 150 %	C,3
% M2-6:2 FTS	130			%	1	06/28/23	***	25 - 200 %	C
% M2-8:2 FTS	147			%	1	06/28/23	***	25 - 200 %	C
% M2PFTEDA	141			%	1	06/28/23	***	10 - 150 %	C
% M3PFBS	148			%	1	06/28/23	***	25 - 150 %	C
% M3PFHxS	142			%	1	06/28/23	***	25 - 150 %	C
% M4PFHpA	134			%	1	06/28/23	***	25 - 150 %	C
% M5PFHxA	148			%	1	06/28/23	***	25 - 150 %	C
% M5PFPEA	160			%	1	06/28/23	***	25 - 150 %	C,3
% M6PFDA	142			%	1	06/28/23	***	25 - 150 %	C
% M7PFUDA	157			%	1	06/28/23	***	25 - 150 %	C,3
% M8FOSA	88.1			%	1	06/28/23	***	10 - 150 %	C
% M8PFOA	134			%	1	06/28/23	***	25 - 150 %	C
% M8PFOS	136			%	1	06/28/23	***	25 - 150 %	C
% M9PFNA	143			%	1	06/28/23	***	25 - 150 %	C
% MPFBA	151			%	1	06/28/23	***	25 - 150 %	C,3
% MPFDOA	135			%	1	06/28/23	***	25 - 150 %	C

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------------	-------	----------	-----------	----	-----------

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection
MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 30, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 30, 2023

QA/QC Data

SDG I.D.: GCO32465

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 684781 (ng/g), QC Sample No: CO32465 (CO32465)										
<u>PFOA & PFOS</u>										
PFHpA	ND	0.237	91.3			88.2	88.7	2.01	50 - 130	35
PFHxS	ND	0.237	95.7			89.5	81.7	7.68	50 - 130	35
PFNA	ND	0.237	98.0			90.4	90.4	1.44	50 - 130	35
PFOA	ND	0.237	90.2			88.7	89.7	2.58	50 - 130	35
PFOS	ND	0.237	98.4			103	103	1.61	50 - 130	35
% M3PFHxS	184	0.0474	190			206	201	2.5	25 - 150	I,m,s
% M4PFHpA	188	0.0474	188			206	197	4.5	25 - 150	I,m,s
% M8PFOA	189	0.0474	181			199	182	8.9	25 - 150	I,m,s
% M8PFOS	172	0.0474	170			148	111	28.6	25 - 150	I,s
% M9PFNA	173	0.0474	169			166	142	15.6	25 - 150	I,m,s

Comment:

Sample CO32465 was not used for MS due to insufficient volume.

QA/QC Batch 684782 (ng/L), QC Sample No: CO32466 (CO32466)

PFOA & PFOS

6:2FTS	ND	5.00	101	99.3	1.17				50 - 175	30
8:2FTS			106	119	11.1				50 - 175	30
FOSA	ND	2.00	80.4	92.1	13.5				50 - 130	30
NEtFOSAA	ND	2.00	81.8	100	20.4				50 - 130	30
NMeFOSAA	ND	2.00	102	119	15.5				50 - 130	30
PFBA	ND	2.00	88.1	93.3	5.68				50 - 130	30
PFBS	ND	2.00	84.8	92.5	8.78				50 - 130	30
PFDA	ND	2.00	87.5	88.3	0.909				50 - 130	30
PFDoA	ND	2.00	96.3	99.6	3.41				50 - 130	30
PFDS	ND	2.00	79.5	90.8	13.2				50 - 130	30
PFHpA	ND	2.00	85.6	90.6	5.71				50 - 130	30
PFHpS	ND	2.00	86.2	96.9	11.6				50 - 130	30
PFHxA	ND	2.00	87.2	94.7	8.15				50 - 130	30
PFHxS	ND	2.00	88.3	91.2	3.26				50 - 130	30
PFNA	ND	2.00	82.3	92.7	11.9				50 - 130	30
PFOA	ND	2.00	86.0	93.5	8.30				50 - 130	30
PFOS	ND	2.00	90.3	95.5	5.61				50 - 130	30
PFPeA	ND	2.00	88.4	93.4	5.47				50 - 130	30
PFTA	ND	2.00	90.0	96.5	6.98				50 - 130	30
PFTrDA	ND	2.00	105	106	1.06				50 - 130	30
PFUnA	ND	2.00	92.2	103	11.4				50 - 130	30
% d3-N-MeFOSAA	166	0.100	175	144	19.4				25 - 150	I,s
% M2-6:2 FTS	137	0.100	143	134	6.5				25 - 200	
% M2-8:2 FTS		%	227	120	61.7				25 - 200	I
% M2PFTEDA	147	0.100	158	167	5.5				10 - 150	I
% M3PFBS	142	0.100	149	145	2.7				25 - 150	

QA/QC Data

SDG I.D.: GCO32465

Parameter	Blank		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	BLK RL								
% M3PFHxS	138	0.100	143	136	5.0				25 - 150	
% M4PFHpA	141	0.100	141	138	2.2				25 - 150	
% M5PFHxA	137	0.100	141	138	2.2				25 - 150	
% M5PFPEA	141	0.100	142	142	0.0				25 - 150	
% M6PFDA	138	0.100	143	140	2.1				25 - 150	
% M7PFUDA	154	0.100	157	139	12.2				25 - 150	i,s
% M8FOSA	113	0.100	125	109	13.7				10 - 150	
% M8PFOA	133	0.100	134	132	1.5				25 - 150	
% M8PFOS	137	0.100	149	138	7.7				25 - 150	
% M9PFNA	131	0.100	144	135	6.5				25 - 150	
% MPFBA	139	0.100	146	140	4.2				25 - 150	
% MPFDOA	139	0.100	140	130	7.4				25 - 150	

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

m = This parameter is outside laboratory MS/MSD specified recovery limits.

s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director
June 30, 2023

Friday, June 30, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO32465 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Comments

June 30, 2023

SDG I.D.: GCO32465

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 06/28/2023
Client Project ID: CO32465-CO32466
York Project (SDG) No.: 23F1433

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 06/28/2023
Client Project ID: CO32465-CO32466
York Project (SDG) No.: 23F1433

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 22, 2023 and listed below. The project was identified as your project: **CO32465-CO32466**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23F1433-01	CO32465	Soil	06/20/2023	06/22/2023
23F1433-02	CO32466	Water	06/20/2023	06/22/2023

General Notes for York Project (SDG) No.: 23F1433

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

Approved By: 

Cassie L. Mosher
Laboratory Manager

Date: 06/28/2023





Sample Information

Client Sample ID: CO32465 **York Sample ID:** 23F1433-01
York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received
 23F1433 CO32465-CO32466 Soil June 20, 2023 7:05 am 06/22/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	06/26/2023 09:59	06/27/2023 19:17	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	06/26/2023 09:59	06/27/2023 19:17	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	06/26/2023 09:59	06/27/2023 19:17	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.76		ug/kg dry	0.243	1	EPA 537m Certifications:	06/26/2023 09:59	06/27/2023 19:17	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.243	1	EPA 537m Certifications:	06/26/2023 09:59	06/27/2023 19:17	WEL
Surrogate Recoveries		Result		Acceptance Range						
Surrogate: M4PFHpA		111 %		25-150						
Surrogate: M3PFHxS		143 %		25-150						
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		193 %	PFSu-H	25-150						
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		129 %		25-150						
Surrogate: M9PFNA		150 %		25-150						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	95.6		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	06/27/2023 17:13	06/27/2023 17:15	AC

Sample Information

Client Sample ID: CO32466 **York Sample ID:** 23F1433-02
York Project (SDG) No. Client Project ID Matrix Collection Date/Time Date Received
 23F1433 CO32465-CO32466 Water June 20, 2023 7:06 am 06/22/2023

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL



Sample Information

Client Sample ID: CO32466

York Sample ID: 23F1433-02

York Project (SDG) No.
23F1433

Client Project ID
CO32465-CO32466

Matrix
Water

Collection Date/Time
June 20, 2023 7:06 am

Date Received
06/22/2023

PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
335-76-2	Perfluorodecanoic acid (PFDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
2355-31-9	N-MeFOSAA	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
2991-50-6	N-EtFOSAA	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
754-91-6	Perfluoro-1-octanesulfonamide (FOSA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
375-92-8	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
335-77-3	Perfluoro-1-decanesulfonic acid (PFDS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
27619-97-2	1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND		ng/L	4.73	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
39108-34-4	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL
375-22-4	Perfluoro-n-butanoic acid (PFBA)	ND		ng/L	1.89	1	EPA 537m Certifications:	06/27/2023 11:18	06/28/2023 13:40	WEL

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M3PFBS

148 %

25-150

Surrogate: M5PFHxA

148 %

25-150

Surrogate: M4PFHpA

134 %

25-150

Surrogate: M3PFHxS

142 %

25-150



Sample Information

Client Sample ID: CO32466

York Sample ID: 23F1433-02

<u>York Project (SDG) No.</u> 23F1433	<u>Client Project ID</u> CO32465-CO32466	<u>Matrix</u> Water	<u>Collection Date/Time</u> June 20, 2023 7:06 am	<u>Date Received</u> 06/22/2023
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PFAS by EPA 537 m

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	134 %			25-150					
	Surrogate: M6PFDA	142 %			25-150					
	Surrogate: M7PFUdA	157 %	PFSu-H		25-150					
	Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	135 %			25-150					
	Surrogate: M2PFTeDA	141 %			10-150					
	Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	151 %	PFSu-H		25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	136 %			25-150					
	Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	160 %	PFSu-H		25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	88.1 %			10-150					
	Surrogate: d3-N-MeFOSAA	158 %	PFSu-H		25-150					
	Surrogate: d5-N-EtFOSAA	197 %	PFSu-H		25-150					
	Surrogate: M2-6:2 FTS	130 %			25-200					
	Surrogate: M2-8:2 FTS	147 %			25-200					
	Surrogate: M9PFNA	143 %			25-150					



Analytical Batch Summary

Batch ID: BF31634 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** AM

YORK Sample ID	Client Sample ID	Preparation Date
23F1433-01	CO32465	06/26/23
23F1433-01RE1	CO32465	06/26/23
BF31634-BLK1	Blank	06/26/23
BF31634-BS1	LCS	06/26/23
BF31634-MS1	Matrix Spike	06/26/23
BF31634-MSD1	Matrix Spike Dup	06/26/23

Batch ID: BF31753 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** DRP

YORK Sample ID	Client Sample ID	Preparation Date
23F1433-02	CO32466	06/27/23
BF31753-BLK1	Blank	06/27/23
BF31753-BLK2	Blank	06/27/23
BF31753-BS1	LCS	06/27/23
BF31753-BSD1	LCS Dup	06/27/23

Batch ID: BF31813 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
23F1433-01	CO32465	06/27/23
BF31813-DUP1	Duplicate	06/27/23



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF31634 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BF31634-BLK1)

Prepared: 06/26/2023 Analyzed: 06/27/2023

Perfluoroheptanoic acid (PFHpA)	ND	0.237	ug/kg wet								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.237	"								
Perfluorooctanoic acid (PFOA)	ND	0.237	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.237	"								
Perfluorononanoic acid (PFNA)	ND	0.237	"								
Surrogate: M4PFHpA	5.96		"	3.16		188	25-150				
Surrogate: M3PFHxS	5.49		"	2.99		184	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	5.96		"	3.16		189	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	5.20		"	3.02		172	25-150				
Surrogate: M9PFNA	5.47		"	3.16		173	25-150				

LCS (BF31634-BS1)

Prepared: 06/26/2023 Analyzed: 06/27/2023

Perfluoroheptanoic acid (PFHpA)	4.33	0.237	ug/kg wet	4.74		91.3	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.13	0.237	"	4.31		95.7	50-130				
Perfluorooctanoic acid (PFOA)	4.27	0.237	"	4.74		90.2	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.31	0.237	"	4.38		98.4	50-130				
Perfluorononanoic acid (PFNA)	4.64	0.237	"	4.74		98.0	50-130				
Surrogate: M4PFHpA	5.95		"	3.16		188	25-150				
Surrogate: M3PFHxS	5.67		"	2.99		190	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	5.72		"	3.16		181	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	5.15		"	3.02		170	25-150				
Surrogate: M9PFNA	5.33		"	3.16		169	25-150				

Matrix Spike (BF31634-MS1)

*Source sample: 23F1473-01 (Matrix Spike)

Prepared: 06/26/2023 Analyzed: 06/27/2023

Perfluoroheptanoic acid (PFHpA)	4.20	0.238	ug/kg wet	4.76		88.2	25-150				
Perfluorohexanesulfonic acid (PFHxS)	3.88	0.238	"	4.33		89.5	25-150				
Perfluorooctanoic acid (PFOA)	4.22	0.238	"	4.76		88.7	25-150				
Perfluorooctanesulfonic acid (PFOS)	4.54	0.238	"	4.40		103	25-150				
Perfluorononanoic acid (PFNA)	4.31	0.238	"	4.76		90.4	25-150				
Surrogate: M4PFHpA	6.55		"	3.18		206	25-150				
Surrogate: M3PFHxS	6.19		"	3.00		206	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	6.32		"	3.18		199	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	4.49		"	3.04		148	25-150				
Surrogate: M9PFNA	5.29		"	3.18		166	25-150				



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF31634 - SPE PFAS Extraction-Soil-EPA 537m

Matrix Spike Dup (BF31634-MSD1)	*Source sample: 23F1473-01 (Matrix Spike Dup)				Prepared: 06/26/2023 Analyzed: 06/27/2023						
Perfluoroheptanoic acid (PFHpA)	4.28	0.242	ug/kg wet	4.83	88.7	25-150			2.01	35	
Perfluorohexanesulfonic acid (PFHxS)	3.59	0.242	"	4.40	81.7	25-150			7.68	35	
Perfluorooctanoic acid (PFOA)	4.33	0.242	"	4.83	89.7	25-150			2.58	35	
Perfluorooctanesulfonic acid (PFOS)	4.62	0.242	"	4.47	103	25-150			1.61	35	
Perfluorononanoic acid (PFNA)	4.37	0.242	"	4.83	90.4	25-150			1.44	35	
Surrogate: M4PFHpA	6.35		"	3.22	197	25-150					
Surrogate: M3PFHxS	6.13		"	3.05	201	25-150					
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	5.87		"	3.22	182	25-150					
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	3.43		"	3.08	111	25-150					
Surrogate: M9PFNA	4.57		"	3.22	142	25-150					

Batch BF31753 - SPE Ext-PFAS-EPA 537.1M

Blank (BF31753-BLK1)	Prepared & Analyzed: 06/27/2023										
Perfluorobutanesulfonic acid (PFBS)	ND	2.00	ng/L								
Perfluorohexanoic acid (PFHxA)	ND	2.00	"								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	"								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Perfluorodecanoic acid (PFDA)	ND	2.00	"								
Perfluoroundecanoic acid (PFUnA)	ND	2.00	"								
Perfluorododecanoic acid (PFDoA)	ND	2.00	"								
Perfluorotridecanoic acid (PFTrDA)	ND	2.00	"								
Perfluorotetradecanoic acid (PFTA)	ND	2.00	"								
N-MeFOSAA	ND	2.00	"								
N-EtFOSAA	ND	2.00	"								
Perfluoropentanoic acid (PFPeA)	ND	2.00	"								
Perfluoro-1-octanesulfonamide (FOSA)	ND	2.00	"								
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	2.00	"								
Perfluoro-1-decanesulfonic acid (PFDS)	ND	2.00	"								
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	ND	5.00	"								
Perfluoro-n-butanoic acid (PFBA)	ND	2.00	"								
Surrogate: M3PFBS	70.2		"	49.5	142	25-150					
Surrogate: M5PFHxA	73.3		"	53.4	137	25-150					
Surrogate: M4PFHpA	75.5		"	53.4	141	25-150					
Surrogate: M3PFHxS	69.6		"	50.5	138	25-150					
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	71.1		"	53.4	133	25-150					
Surrogate: M6PFDA	73.6		"	53.4	138	25-150					
Surrogate: M7PFUdA	82.2		"	53.4	154	25-150					
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	74.0		"	53.4	139	25-150					
Surrogate: M2PFTeDA	78.3		"	53.4	147	10-150					
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	74.4		"	53.4	139	25-150					
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	69.9		"	51.0	137	25-150					



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF31753 - SPE Ext-PFAS-EPA 537.1M

Blank (BF31753-BLK1)

Prepared & Analyzed: 06/27/2023

Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	75.1		ng/L	53.4		141	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	60.3		"	53.4		113	10-150				
Surrogate: d3-N-MeFOSAA	88.5		"	53.4		166	25-150				
Surrogate: d5-N-EtFOSAA	101		"	53.4		189	25-150				
Surrogate: M2-6:2 FTS	69.3		"	50.6		137	25-200				
Surrogate: M9PFNA	69.9		"	53.4		131	25-150				

Blank (BF31753-BLK2)

Prepared & Analyzed: 06/27/2023

1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	ND	10.0	ng/L								
Surrogate: M2-8:2 FTS	54.1		"	51.1		106	25-200				

LCS (BF31753-BS1)

Prepared & Analyzed: 06/27/2023

Perfluorobutanesulfonic acid (PFBS)	60.0	2.00	ng/L	70.8		84.8	50-130				
Perfluorohexanoic acid (PFHxA)	69.8	2.00	"	80.0		87.2	50-130				
Perfluoroheptanoic acid (PFHpA)	68.5	2.00	"	80.0		85.6	50-130				
Perfluorohexanesulfonic acid (PFHxS)	64.3	2.00	"	72.8		88.3	50-130				
Perfluorooctanoic acid (PFOA)	68.8	2.00	"	80.0		86.0	50-130				
Perfluorooctanesulfonic acid (PFOS)	66.8	2.00	"	74.0		90.3	50-130				
Perfluorononanoic acid (PFNA)	65.8	2.00	"	80.0		82.3	50-130				
Perfluorodecanoic acid (PFDA)	70.0	2.00	"	80.0		87.5	50-130				
Perfluoroundecanoic acid (PFUnA)	73.7	2.00	"	80.0		92.2	50-130				
Perfluorododecanoic acid (PFDoA)	77.0	2.00	"	80.0		96.3	50-130				
Perfluorotridecanoic acid (PFTrDA)	84.2	2.00	"	80.0		105	50-130				
Perfluorotetradecanoic acid (PFTA)	72.0	2.00	"	80.0		90.0	50-130				
N-MeFOSAA	81.7	2.00	"	80.0		102	50-130				
N-EtFOSAA	65.5	2.00	"	80.0		81.8	50-130				
Perfluoropentanoic acid (PFPeA)	70.7	2.00	"	80.0		88.4	50-130				
Perfluoro-1-octanesulfonamide (FOSA)	64.3	2.00	"	80.0		80.4	50-130				
Perfluoro-1-heptanesulfonic acid (PFHpS)	65.9	2.00	"	76.4		86.2	50-130				
Perfluoro-1-decanesulfonic acid (PFDS)	61.4	2.00	"	77.2		79.5	50-130				
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	76.4	5.00	"	76.0		101	50-175				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	81.7	2.00	"	76.8		106	50-175				
Perfluoro-n-butanoic acid (PFBA)	70.5	2.00	"	80.0		88.1	50-130				
Surrogate: M3PFBS	74.0		"	49.5		149	25-150				
Surrogate: M5PFHxA	75.3		"	53.4		141	25-150				
Surrogate: M4PFHpA	75.0		"	53.4		141	25-150				
Surrogate: M3PFHxS	72.4		"	50.5		143	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	71.6		"	53.4		134	25-150				
Surrogate: M6PFDA	76.5		"	53.4		143	25-150				
Surrogate: M7PFUdA	83.8		"	53.4		157	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	74.5		"	53.4		140	25-150				
Surrogate: M2PFTeDA	84.4		"	53.4		158	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	78.0		"	53.4		146	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	76.2		"	51.0		149	25-150				



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF31753 - SPE Ext-PFAS-EPA 537.1M

LCS (BF31753-BS1)

Prepared & Analyzed: 06/27/2023

Surrogate: Perfluoro-n-[13C5]pentanoic acid (MSPFPeA)	76.0		ng/L	53.4		142	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	67.0		"	53.4		125	10-150				
Surrogate: d3-N-MeFOSAA	93.4		"	53.4		175	25-150				
Surrogate: d5-N-EtFOSAA	98.9		"	53.4		185	25-150				
Surrogate: M2-6:2 FTS	72.6		"	50.6		143	25-200				
Surrogate: M2-8:2 FTS	116		"	51.1		227	25-200				
Surrogate: M9PFNA	77.0		"	53.4		144	25-150				

LCS Dup (BF31753-BSD1)

Prepared & Analyzed: 06/27/2023

Perfluorobutanesulfonic acid (PFBS)	65.5	2.00	ng/L	70.8		92.5	50-130		8.78	30	
Perfluorohexanoic acid (PFHxA)	75.7	2.00	"	80.0		94.7	50-130		8.15	30	
Perfluoroheptanoic acid (PFHpA)	72.5	2.00	"	80.0		90.6	50-130		5.71	30	
Perfluorohexanesulfonic acid (PFHxS)	66.4	2.00	"	72.8		91.2	50-130		3.26	30	
Perfluorooctanoic acid (PFOA)	74.8	2.00	"	80.0		93.5	50-130		8.30	30	
Perfluorooctanesulfonic acid (PFOS)	70.7	2.00	"	74.0		95.5	50-130		5.61	30	
Perfluorononanoic acid (PFNA)	74.2	2.00	"	80.0		92.7	50-130		11.9	30	
Perfluorodecanoic acid (PFDA)	70.6	2.00	"	80.0		88.3	50-130		0.909	30	
Perfluoroundecanoic acid (PFUnA)	82.6	2.00	"	80.0		103	50-130		11.4	30	
Perfluorododecanoic acid (PFDoA)	79.7	2.00	"	80.0		99.6	50-130		3.41	30	
Perfluorotridecanoic acid (PFTrDA)	85.1	2.00	"	80.0		106	50-130		1.06	30	
Perfluorotetradecanoic acid (PFTA)	77.2	2.00	"	80.0		96.5	50-130		6.98	30	
N-MeFOSAA	95.4	2.00	"	80.0		119	50-130		15.5	30	
N-EtFOSAA	80.4	2.00	"	80.0		100	50-130		20.4	30	
Perfluoropentanoic acid (PFPeA)	74.7	2.00	"	80.0		93.4	50-130		5.47	30	
Perfluoro-1-octanesulfonamide (FOSA)	73.7	2.00	"	80.0		92.1	50-130		13.5	30	
Perfluoro-1-heptanesulfonic acid (PFHpS)	74.0	2.00	"	76.4		96.9	50-130		11.6	30	
Perfluoro-1-decanesulfonic acid (PFDS)	70.1	2.00	"	77.2		90.8	50-130		13.2	30	
1H,1H,2H,2H-Perfluorooctanesulfonic acid (6:2 FTS)	75.5	5.00	"	76.0		99.3	50-175		1.17	30	
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	91.3	2.00	"	76.8		119	50-175		11.1	30	
Perfluoro-n-butanoic acid (PFBA)	74.6	2.00	"	80.0		93.3	50-130		5.68	30	
Surrogate: M3PFBS	71.7		"	49.5		145	25-150				
Surrogate: M5PFHxA	73.5		"	53.4		138	25-150				
Surrogate: M4PFHpA	73.9		"	53.4		138	25-150				
Surrogate: M3PFHxS	68.7		"	50.5		136	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	70.3		"	53.4		132	25-150				
Surrogate: M6PFDA	74.5		"	53.4		140	25-150				
Surrogate: M7PFUdA	74.1		"	53.4		139	25-150				
Surrogate: Perfluoro-n-[1,2-13C2]dodecanoic acid (MPFDoA)	69.4		"	53.4		130	25-150				
Surrogate: M2PFTeDA	89.1		"	53.4		167	10-150				
Surrogate: Perfluoro-n-[13C4]butanoic acid (MPFBA)	74.8		"	53.4		140	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	70.6		"	51.0		138	25-150				
Surrogate: Perfluoro-n-[13C5]pentanoic acid (M5PFPeA)	75.9		"	53.4		142	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonamide (M8FOSA)	58.3		"	53.4		109	10-150				



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF31753 - SPE Ext-PFAS-EPA 537.1M

LCS Dup (BF31753-BSD1)

Prepared & Analyzed: 06/27/2023

Surrogate: <i>d3-N-MeFOSAA</i>	76.9		ng/L	53.4		144	25-150				
Surrogate: <i>d5-N-EtFOSAA</i>	81.5		"	53.4		153	25-150				
Surrogate: <i>M2-6:2 FTS</i>	67.8		"	50.6		134	25-200				
Surrogate: <i>M2-8:2 FTS</i>	61.5		"	51.1		120	25-200				
Surrogate: <i>M9PFNA</i>	72.2		"	53.4		135	25-150				



Miscellaneous Physical Parameters - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF31813 - % Solids Prep

Duplicate (BF31813-DUP1)	*Source sample: 23F1534-01 (Duplicate)						Prepared & Analyzed: 06/27/2023				
% Solids	95.2	0.100	%		96.2				0.966	20	





Sample and Data Qualifiers Relating to This Work Order

PFSu-H The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

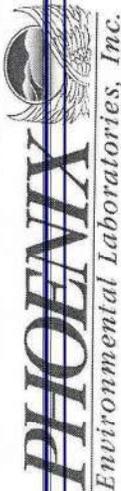
23FI433

Cooler: Yes No
Coolant: IPK ICE

Temp 1.3 °C Pg of

CHAIN OF CUSTODY RECORD

Page 1 of 1



567 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Contact Options:

Fax: 860-645-0823
Phone: 800-827-5426
Email: HelenG@PhoenixLabs.com

Customer: York Analytical Laboratories

Address: 120 Research Drive
Stratford, CT
(203) 325-1371

Project #: GCO32465

Report to: HelenG@PhoenixLabs.com / Helen.Geoghegan

Invoice to: AccountsPavable@PhoenixLabs.com

Quote# :

Project P.O.: GCO32465

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____
Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

Analysis Request
PFAS (CT) ES37 modified
PFAS CT DEEP (6) ES37 modified
Special HDPE Plastic As Is
Special HDPE Plastic As Is

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled
CO32465	CT DEEP list of 5	SOIL	6/20/2023	7:05 AM
CO32466	CT DEEP list of 5 FB	WTR	6/20/2023	7:06 AM

Relinquished by:	Accepted by:	Date:	Time:
<i>[Signature]</i>	<i>[Signature]</i>	6/20/23	0725
<i>[Signature]</i>	<i>[Signature]</i>	6/20/23	0930

Comments, Special Requirements or Regulations:

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.
Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is held for the analyses requested.

Turnaround: 1 Day 2 Days 3 Days 5 Days 10 Days Standard Other _____

Report Type: Standard PDF Full Data Package NJ Reduced Deliverable NJ Full Deliverable NY ASP B

EDD Format: Excel GIS/Key EQUIS NJ Hazsite EDD NY EZ EDD (ASP) Other _____

State Criteria: CT: RCP
CT: GB Mobility
CT: I/C Dec
CT: Res. Criteria

What State were samples collected? CT



Monday, August 28, 2023

Attn: Casey Watts
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO71457
Sample ID#s: CO71457 - CO71471

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style with a large initial "P".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

August 28, 2023

SDG I.D.: GCO71457

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
HA-48 (0-0.5)	CO71457	SOIL
HA-49 (0-0.5)	CO71458	SOIL
HA-50 (0-0.5)	CO71459	SOIL
HA-51 (0-0.5)	CO71460	SOIL
HA-52 (0-0.5)	CO71461	SOIL
HA-53 (0-0.5)	CO71462	SOIL
HA-54 (0-0.5)	CO71463	SOIL
HA-55 (0-0.5)	CO71464	SOIL
HA-56 (0-0.5)	CO71465	SOIL
HA-57 (0-0.5)	CO71466	SOIL
HA-58 (0-0.5)	CO71467	SOIL
HA-59 (0-0.5)	CO71468	SOIL
DUP081023	CO71469	SOIL
FIELD BLANK	CO71470	WATER
EQUIPMENT BLANK	CO71471	WATER



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

8:35
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71457

Project ID: BRAINARD AIRPORT
 Client ID: HA-48 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.34	0.75	mg/Kg	1	08/21/23	IE	SW6010D
Lead	20.7	0.38	mg/Kg	1	08/21/23	IE	SW6010D
Percent Solid	82		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.298	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.298	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.298	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.14	0.298	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.298	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	1.140	0.298	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	67.0		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	87.2		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	83.1		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	75.3		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	87.8		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	08/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	08/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	89		%	1	08/16/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	103		%	1	08/16/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	53		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	57		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	48		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

8:50
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71458

Project ID: BRAINARD AIRPORT
 Client ID: HA-49 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.95	0.88	mg/Kg	1	08/21/23	IE	SW6010D
Lead	43.7	0.44	mg/Kg	1	08/21/23	IE	SW6010D
Percent Solid	80		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.308	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	2.04	0.308	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.308	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	38.6	0.616	ng/g	2	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.308	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	40.64	0.308	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	70.3		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	79.1		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	81.8		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	81.9		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS(2X)	60.7		%	2	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	08/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	08/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	94		%	1	08/16/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	100		%	1	08/16/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	ND	290	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	81		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	85		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	73		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time

08/10/23 9:05
 08/10/23 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71459

Project ID: BRAINARD AIRPORT
 Client ID: HA-50 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.55	0.77	mg/Kg	1	08/21/23	IE	SW6010D
Lead	36.6	0.39	mg/Kg	1	08/21/23	IE	SW6010D
Percent Solid	77		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.288	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.288	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.288	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.84	0.288	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.288	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	1.840	0.288	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	83.5		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	78.9		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	83.5		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	76.5		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	96.4		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	08/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	08/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	93		%	1	08/16/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	97		%	1	08/16/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	82		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	69		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

9:20
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71460

Project ID: BRAINARD AIRPORT
 Client ID: HA-51 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.05	0.91	mg/Kg	1	08/21/23	IE	SW6010D
Lead	37.1	0.46	mg/Kg	1	08/21/23	IE	SW6010D
Percent Solid	73		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.342	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.342	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.342	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	2.87	0.342	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	0.371	0.342	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	3.241	0.342	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	79.2		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	76.1		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	79.9		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	82.3		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	86.3		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	340	mg/Kg	5	08/16/23	JRB	CTETPH
Identification	ND		mg/Kg	5	08/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	36		%	5	08/16/23	JRB	50 - 150 %	3
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	70		%	5	08/16/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	320	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	320	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	320	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	320	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	540	320	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	600	320	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	630	320	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	400	320	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	320	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	590	320	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	890	320	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	320	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	360	320	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	320	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	640	320	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	1300	320	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	80		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	87		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	81		%	1	08/16/23	RM	30 - 130 %

3 = This parameter exceeds laboratory specified limits.
 C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

11:05
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71461

Project ID: BRAINARD AIRPORT
 Client ID: HA-52 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.22	0.89	mg/Kg	1	08/21/23	IE	SW6010D
Lead	35.0	0.44	mg/Kg	1	08/21/23	IE	SW6010D
Percent Solid	76		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	2.95	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	2.950	0.305	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	52.3		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	68.3		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	69.9		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	57.7		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	70.7		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	97	65	mg/Kg	1	08/16/23	JRB	CTETPH
Identification	**		mg/Kg	1	08/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	82		%	1	08/16/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	81		%	1	08/16/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	82		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	94		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	77		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

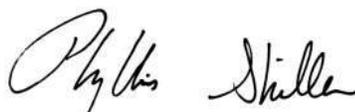
TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C19 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

9:35
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71462

Project ID: BRAINARD AIRPORT
 Client ID: HA-53 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.12	0.75	mg/Kg	1	08/21/23	IE	SW6010D
Lead	39.8	0.38	mg/Kg	1	08/21/23	IE	SW6010D
Percent Solid	78		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.299	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.299	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.299	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.80	0.299	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	0.370	0.299	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	2.170	0.299	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	71.9		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	78.1		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	82.6		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	73.4		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	86.6		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	08/17/23	JRB	CTETPH
Identification	ND		mg/Kg	1	08/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	104		%	1	08/17/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	92		%	1	08/17/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	300	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	330	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	330	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	420	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	410	300	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	79		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	82		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	81		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

10:20
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71463

Project ID: BRAINARD AIRPORT
 Client ID: HA-54 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.56	0.87	mg/Kg	1	08/21/23	IE	SW6010D
Lead	52.4	0.43	mg/Kg	1	08/21/23	IE	SW6010D
Percent Solid	74		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.336	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.336	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.336	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	2.29	0.336	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	0.497	0.336	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	2.787	0.336	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	79.9		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	83.8		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	94.0		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	79.4		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	88.6		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	08/17/23	JRB	CTETPH
Identification	ND		mg/Kg	1	08/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	89		%	1	08/17/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	93		%	1	08/17/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	310	310	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	390	310	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	370	310	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	310	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	390	310	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	155		%	1	08/16/23	RM	30 - 130 % 3
% Nitrobenzene-d5	148		%	1	08/16/23	RM	30 - 130 % 3
% Terphenyl-d14	163		%	1	08/16/23	RM	30 - 130 % 3

3 = This parameter exceeds laboratory specified limits.
 C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

9:45
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71464

Project ID: BRAINARD AIRPORT
 Client ID: HA-55 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.39	0.84	mg/Kg	1	08/21/23	IE	SW6010D
Lead	30.8	0.42	mg/Kg	1	08/21/23	IE	SW6010D
Percent Solid	75		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.312	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.312	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.312	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.41	0.312	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.312	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	1.410	0.312	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	76.3		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	88.5		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	89.7		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	86.1		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	93.1		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	66	mg/Kg	1	08/17/23	JRB	CTETPH
Identification	ND		mg/Kg	1	08/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	83		%	1	08/17/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	86		%	1	08/17/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	63		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	67		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	57		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

10:10
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71465

Project ID: BRAINARD AIRPORT
 Client ID: HA-56 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.23	0.87	mg/Kg	1	08/24/23	CPP	SW6010D
Lead	55.4	0.43	mg/Kg	1	08/24/23	CPP	SW6010D
Percent Solid	77		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.66	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	0.452	0.305	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	2.112	0.305	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	70.9		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	75.2		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	71.9		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	51.0		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	73.4		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	08/17/23	JRB	CTETPH
Identification	ND		mg/Kg	1	08/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	97		%	1	08/17/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	98		%	1	08/17/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	310	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	350	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	400	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	460	300	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	300	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	480	300	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	67		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	73		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	63		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

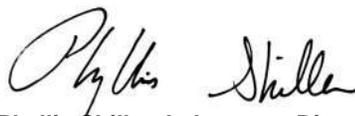
Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time

08/10/23 10:30
 08/10/23 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71466

Project ID: BRAINARD AIRPORT
 Client ID: HA-57 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	< 0.76	0.76	mg/Kg	1	08/24/23	CPP	SW6010D
Lead	< 0.38	0.38	mg/Kg	1	08/24/23	CPP	SW6010D
Percent Solid	80		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/12/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.310	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.310	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.310	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	2.63	0.310	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.310	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	2.630	0.310	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	65.9		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	74.4		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	78.1		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	49.7		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	68.4		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	99	62	mg/Kg	1	08/16/23	JRB	CTETPH
Identification	**		mg/Kg	1	08/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	109		%	1	08/16/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	134		%	1	08/16/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	480	280	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	590	280	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	630	280	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	450	280	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	750	280	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	300	280	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	280	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	790	280	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	78		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	85		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	74		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

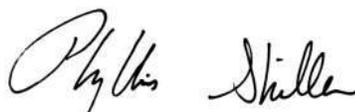
TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

10:55
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71467

Project ID: BRAINARD AIRPORT
 Client ID: HA-58 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.69	0.82	mg/Kg	1	08/26/23	TH	SW6010D
Lead	31.4	0.41	mg/Kg	1	08/26/23	TH	SW6010D
Percent Solid	85		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/13/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.297	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.297	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.297	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	0.750	0.297	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.297	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	0.750	0.297	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	58.7		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	74.9		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	81.6		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	45.7		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	70.0		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	08/16/23	JRB	CTETPH
Identification	ND		mg/Kg	1	08/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	83		%	1	08/16/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	95		%	1	08/16/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	280	270	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	56		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	60		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	54		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

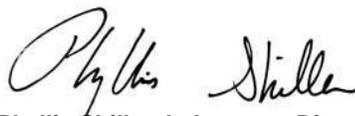
Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time

08/10/23 10:45
 08/10/23 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71468

Project ID: BRAINARD AIRPORT
 Client ID: HA-59 (0-0.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.28	0.82	mg/Kg	1	08/26/23	TH	SW6010D
Lead	30.4	0.41	mg/Kg	1	08/26/23	TH	SW6010D
Percent Solid	84		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/15/23	H/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	I/H/U	SW3546
Total Metals Digest	Completed				08/13/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.289	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.289	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.289	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.11	0.289	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.289	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	1.110	0.289	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	68.4		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	80.9		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	87.5		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	57.0		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	71.3		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	93	58	mg/Kg	1	08/16/23	JRB	CTETPH
Identification	**		mg/Kg	1	08/16/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	100		%	1	08/16/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	104		%	1	08/16/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Anthracene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Benz(a)anthracene	270	270	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(a)pyrene	330	270	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(b)fluoranthene	390	270	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Chrysene	280	270	ug/Kg	1	08/16/23	RM	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Fluoranthene	490	270	ug/Kg	1	08/16/23	RM	SW8270D
Fluorene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Naphthalene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Phenanthrene	ND	270	ug/Kg	1	08/16/23	RM	SW8270D
Pyrene	480	270	ug/Kg	1	08/16/23	RM	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	65		%	1	08/16/23	RM	30 - 130 %
% Nitrobenzene-d5	79		%	1	08/16/23	RM	30 - 130 %
% Terphenyl-d14	67		%	1	08/16/23	RM	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: SOIL
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date Time
 08/10/23 10:46
 08/10/23 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71469

Project ID: BRAINARD AIRPORT
 Client ID: DUP081023

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.26	0.71	mg/Kg	1	08/26/23	TH	SW6010D
Lead	31.6	0.35	mg/Kg	1	08/26/23	TH	SW6010D
Percent Solid	84		%		08/11/23	CV	SW846-%Solid
Extraction of ETPH	Completed				08/16/23	MO/JDW	SW3546
Soil Extraction for SVOA PAH	Completed				08/15/23	C/JDW	SW3546
Total Metals Digest	Completed				08/13/23	P/AG	SW3050B
PFAS CT DEEP (5)	Completed				08/17/23	***	EPA 537m

PFAS CT DEEP (5)

Perfluoroheptanoic Acid (PFHpA)	ND	0.294	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	0.294	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorononanoic Acid (PFNA)	ND	0.294	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	1.39	0.294	ng/g	1	08/23/23	***	EPA 537m	C
Perfluorooctanoic Acid (PFOA)	ND	0.294	ng/g	1	08/23/23	***	EPA 537m	C
Total PFAS (5)	1.390	0.294	ng/g	1	08/23/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	58.0		%	1	08/23/23	***	25 - 150 %	C
% M4PFHpA	85.4		%	1	08/23/23	***	25 - 150 %	C
% M8PFOA	84.4		%	1	08/23/23	***	25 - 150 %	C
% M8PFOS	52.7		%	1	08/23/23	***	25 - 150 %	C
% M9PFNA	74.1		%	1	08/23/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	08/17/23	JRB	CTETPH
Identification	ND		mg/Kg	5	08/17/23	JRB	CTETPH

QA/QC Surrogates

% COD (surr)	79		%	5	08/17/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl (surr)	76		%	5	08/17/23	JRB	50 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Acenaphthene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Anthracene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Benz(a)anthracene	340	280	ug/Kg	1	08/16/23	AW	SW8270D
Benzo(a)pyrene	450	280	ug/Kg	1	08/16/23	AW	SW8270D
Benzo(b)fluoranthene	490	280	ug/Kg	1	08/16/23	AW	SW8270D
Benzo(ghi)perylene	330	280	ug/Kg	1	08/16/23	AW	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Chrysene	340	280	ug/Kg	1	08/16/23	AW	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Fluoranthene	280	280	ug/Kg	1	08/16/23	AW	SW8270D
Fluorene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Indeno(1,2,3-cd)pyrene	310	280	ug/Kg	1	08/16/23	AW	SW8270D
Naphthalene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Phenanthrene	ND	280	ug/Kg	1	08/16/23	AW	SW8270D
Pyrene	280	280	ug/Kg	1	08/16/23	AW	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	08/16/23	AW	30 - 130 %
% Nitrobenzene-d5	90		%	1	08/16/23	AW	30 - 130 %
% Terphenyl-d14	39		%	1	08/16/23	AW	30 - 130 %

C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

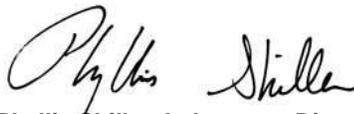
Comments:

*See attached

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

PFAS CT DEEP (5) (EPA 537m), PFOA/PFOS - Soil Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by:
 Received by: SR1
 Analyzed by: see "By" below

Date

08/10/23
 08/10/23

Time

9:50
 12:17

Laboratory Data

SDG ID: GCO71457
 Phoenix ID: CO71470

Project ID: BRAINARD AIRPORT
 Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
PFAS (CT)	Completed				08/21/23	***	EPA 537m	C
<u>PFAS (CT)</u>								
Perfluoroheptanoic acid (PFHpA)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Total PFAS (5)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>								
% M3PFHxS	85.3		%	1	08/22/23	***	25 - 150 %	C
% M4PFHpA	130		%	1	08/22/23	***	25 - 150 %	C
% M8PFOA	112		%	1	08/22/23	***	25 - 150 %	C
% M8PFOS	92.2		%	1	08/22/23	***	25 - 150 %	C
% M9PFNA	106		%	1	08/22/23	***	25 - 150 %	C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 28, 2023

FOR: Attn: Casey Watts
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by:
Received by: SR1
Analyzed by: see "By" below

Date

08/10/23
08/10/23

Time

9:55
12:17

Laboratory Data

SDG ID: GCO71457
Phoenix ID: CO71471

Project ID: BRAINARD AIRPORT
Client ID: EQUIPMENT BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
PFAS (CT)	Completed				08/21/23	***	EPA 537m	C

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C
Total PFAS (5)	ND	2.00	ng/L	1	08/22/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	69.3		%	1	08/22/23	***	25 - 150 %	C
% M4PFHpA	96.3		%	1	08/22/23	***	25 - 150 %	C
% M8PFOA	87.7		%	1	08/22/23	***	25 - 150 %	C
% M8PFOS	70.0		%	1	08/22/23	***	25 - 150 %	C
% M9PFNA	85.2		%	1	08/22/23	***	25 - 150 %	C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

August 28, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

August 28, 2023

QA/QC Data

SDG I.D.: GCO71457

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 692083 (mg/kg), QC Sample No: CO71062 (CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464)

ICP Metals - Soil

Arsenic	BRL	0.67	1.22	2.70	NC	94.8	103	8.3	99.2			75 - 125	35
Lead	BRL	0.33	11.9	14.2	17.6	91.3	102	11.1	103			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 692084 (mg/kg), QC Sample No: CO71174 (CO71467, CO71468, CO71469)

ICP Metals - Soil

Arsenic	BRL	0.67	99.0	110	10.5	119	114	4.3	102			75 - 125	35
Lead	BRL	0.33	250	257	2.80	114	110	3.6	86.4			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 692082 (mg/kg), QC Sample No: CO72841 (CO71465, CO71466)

ICP Metals - Soil

Arsenic	BRL	0.67	34.7	42.8	20.9	105	115	9.1	101	105	3.9	75 - 125	35
Lead	BRL	0.33	332	331	0.30	102	112	9.3	104	105	1.0	75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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 Tel. (860) 645-1102

QA/QC Report

August 28, 2023

QA/QC Data

SDG I.D.: GCO71457

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 693851 (ng/g), QC Sample No: CO71457 (CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467)

PFOA & PFOS

PFHpA	ND	0.245	88.7			97.3	98.7	1.76	50 - 130	35
PFHxS	ND	0.245	111			103	97.5	8.60	50 - 130	35
PFNA	ND	0.245	107			113	97.1	17.8	50 - 130	35
PFOA	ND	0.245	99.8			98.8	94.1	8.08	50 - 130	35
PFOS	ND	0.245	113			108	114	2.01	50 - 130	35
% M3PFHxS	71.8	0.0491	70.9			67.4	62.3	7.9	25 - 150	
% M4PFHpA	94.6	0.0491	101			88.6	72.4	20.1	25 - 150	
% M8PFOA	85.0	0.0491	91.6			84.2	69.4	19.3	25 - 150	
% M8PFOS	67.7	0.0491	81.9			60.0	36.3	49.2	25 - 150	
% M9PFNA	87.6	0.0491	94.4			66.5	53.1	22.4	25 - 150	

Comment:

Sample CO71457 was not used for MS due to insufficient volume.

QA/QC Batch 693852 (ng/g), QC Sample No: CO71469 (CO71468, CO71469)

PFOA & PFOS

PFHpA	ND	0.245	88.7			97.3	98.7	1.76	50 - 130	35
PFHxS	ND	0.245	111			103	97.5	8.60	50 - 130	35
PFNA	ND	0.245	107			113	97.1	17.8	50 - 130	35
PFOA	ND	0.245	99.8			98.8	94.1	8.08	50 - 130	35
PFOS	ND	0.245	113			108	114	2.01	50 - 130	35
% M3PFHxS	71.8	0.0491	70.9			67.4	62.3	7.9	25 - 150	
% M4PFHpA	94.6	0.0491	101			88.6	72.4	20.1	25 - 150	
% M8PFOA	85.0	0.0491	91.6			84.2	69.4	19.3	25 - 150	
% M8PFOS	67.7	0.0491	81.9			60.0	36.3	49.2	25 - 150	
% M9PFNA	87.6	0.0491	94.4			66.5	53.1	22.4	25 - 150	

QA/QC Batch 693854 (ng/L), QC Sample No: CO71470 (CO71470, CO71471)

PFOA & PFOS

PFHpA	ND	2.00	86.5	97.5	12.0	105			50 - 130	30
PFHxS	ND	2.00	108	107	1.13	108			50 - 130	30
PFNA	ND	2.00	89.4	111	21.7	106			50 - 130	30
PFOA	ND	2.00	91.8	101	9.34	87.5			50 - 130	30
PFOS	ND	2.00	102	110	6.91	91.3			50 - 130	30
% M3PFHxS	72.4	0.100	79.6	75.4	5.4	109			25 - 150	
% M4PFHpA	94.6	0.100	97.3	90.6	7.1	70.7			25 - 150	
% M8PFOA	86.1	0.100	95.7	85.0	11.8	89.4			25 - 150	
% M8PFOS	69.8	0.100	87.4	74.3	16.2	128			25 - 150	
% M9PFNA	75.3	0.100	101	85.3	16.9	93.0			25 - 150	

Comment:

Sample CO71470 was not used for MS due to insufficient volume.

QA/QC Data

SDG I.D.: GCO71457

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 692517 (mg/Kg), QC Sample No: CO71468 (CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	130	118	9.7	124	117	5.8	60 - 120	30	
% COD (surr)	68	%	141	141	0.0	102	113	10.2	50 - 150	30	
% Terphenyl (surr)	70	%	119	119	0.0	117	103	12.7	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 692772 (mg/Kg), QC Sample No: CO72398 (CO71469)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	89	76	15.8	72	50	36.1	60 - 120	30	r
% COD (surr)	97	%	91	79	14.1	94	62	41.0	50 - 150	30	r
% Terphenyl (surr)	93	%	83	75	10.1	83	84	1.2	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 692494 (ug/kg), QC Sample No: CO71403 (CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	80	60	28.6	78	88	12.0	40 - 140	30	
Acenaphthene	ND	230	87	66	27.5	83	89	7.0	30 - 130	30	
Acenaphthylene	ND	230	79	58	30.7	76	81	6.4	40 - 140	30	r
Anthracene	ND	230	89	68	26.8	89	99	10.6	40 - 140	30	
Benz(a)anthracene	ND	230	83	65	24.3	84	96	13.3	40 - 140	30	
Benzo(a)pyrene	ND	230	100	78	24.7	97	112	14.4	40 - 140	30	
Benzo(b)fluoranthene	ND	230	89	69	25.3	85	102	18.2	40 - 140	30	
Benzo(ghi)perylene	ND	230	102	79	25.4	99	111	11.4	40 - 140	30	
Benzo(k)fluoranthene	ND	230	84	66	24.0	81	92	12.7	40 - 140	30	
Chrysene	ND	230	82	66	21.6	81	92	12.7	40 - 140	30	
Dibenz(a,h)anthracene	ND	230	96	76	23.3	94	106	12.0	40 - 140	30	
Fluoranthene	ND	230	91	70	26.1	89	111	22.0	40 - 140	30	
Fluorene	ND	230	87	68	24.5	84	93	10.2	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	102	78	26.7	100	111	10.4	40 - 140	30	
Naphthalene	ND	230	80	57	33.6	78	83	6.2	40 - 140	30	r
Phenanthrene	ND	230	89	68	26.8	89	99	10.6	40 - 140	30	
Pyrene	ND	230	90	68	27.8	89	111	22.0	30 - 130	30	
% 2-Fluorobiphenyl	81	%	78	57	31.1	76	81	6.4	30 - 130	30	r
% Nitrobenzene-d5	79	%	80	57	33.6	77	82	6.3	30 - 130	30	r
% Terphenyl-d14	79	%	75	53	34.4	69	79	13.5	30 - 130	30	r

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 692515 (ug/kg), QC Sample No: CO72118 (CO71469)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	55	47	15.7	74	70	5.6	40 - 140	30	
Acenaphthene	ND	230	56	47	17.5	79	76	3.9	30 - 130	30	
Acenaphthylene	ND	230	55	48	13.6	74	70	5.6	40 - 140	30	
Anthracene	ND	230	57	48	17.1	89	79	11.9	40 - 140	30	
Benz(a)anthracene	ND	230	62	53	15.7	91	84	8.0	40 - 140	30	
Benzo(a)pyrene	ND	230	62	53	15.7	92	85	7.9	40 - 140	30	

QA/QC Data

SDG I.D.: GCO71457

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(b)fluoranthene	ND	230	51	44	14.7	68	61	10.9	40 - 140	30
Benzo(ghi)perylene	ND	230	71	55	25.4	120	100	18.2	40 - 140	30
Benzo(k)fluoranthene	ND	230	47	42	11.2	66	58	12.9	40 - 140	30
Chrysene	ND	230	64	52	20.7	89	82	8.2	40 - 140	30
Dibenz(a,h)anthracene	ND	230	67	56	17.9	115	101	13.0	40 - 140	30
Fluoranthene	ND	230	50	43	15.1	59	51	14.5	40 - 140	30
Fluorene	ND	230	54	48	11.8	83	76	8.8	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	72	55	26.8	119	99	18.3	40 - 140	30
Naphthalene	ND	230	56	47	17.5	78	75	3.9	40 - 140	30
Phenanthrene	ND	230	56	46	19.6	90	80	11.8	40 - 140	30
Pyrene	ND	230	46	39	16.5	56	49	13.3	30 - 130	30
% 2-Fluorobiphenyl	75	%	60	49	20.2	83	76	8.8	30 - 130	30
% Nitrobenzene-d5	80	%	66	52	23.7	90	84	6.9	30 - 130	30
% Terphenyl-d14	43	%	33	30	9.5	49	41	17.8	30 - 130	30

Comment:

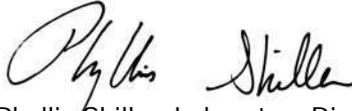
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 August 28, 2023

Monday, August 28, 2023

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCO71457 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO71458	\$PFAS-SMCTD	Total PFAS (5)	CT / RSR GB (mg/kg) / APS Organics	40.64	0.308	14	14	ng/g

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO71457-CO71471

Sampling Date(s): 8/10/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>YPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, SVOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Monday, August 28, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



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RCP Certification Report

August 28, 2023

SDG I.D.: GCO71457

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Chromium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 692517 (Samples: CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468): -----

The LCS recovery is above the upper range, all of the other QC is acceptable. No significant bias is suspected. (Ext. Petroleum H.C. (C9-C36))

Instrument:

AU-FID1 08/16/23-1 Jeff Bucko, Chemist 08/16/23

CO71460 (5X), CO71461 (1X), CO71468 (1X)

The initial calibration (ET_7071) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (816A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID1 08/17/23-1 Jeff Bucko, Chemist 08/17/23

CO71469 (5X)

The initial calibration (ET_7071) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (817A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 08/16/23-1 Jeff Bucko, Chemist 08/16/23

CO71457 (1X), CO71458 (1X), CO71459 (1X), CO71462 (1X), CO71463 (1X), CO71464 (1X), CO71465 (1X)

The initial calibration (ETPH8011) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (816A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 08/16/23-1 Jeff Bucko, Chemist 08/16/23

CO71466 (1X), CO71467 (1X)

The initial calibration (ETPH8081) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (816A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 692772 (CO72398)

CO71469

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.



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RCP Certification Report

August 28, 2023

SDG I.D.: GCO71457

ETPH Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QC (Site Specific):

Batch 692517 (CO71468)

CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468

All LCS recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(130%)

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 08/21/23 09:44 Ian Enders, Chemist 08/21/23

CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 08/24/23 12:36 Cindy Pearce, Chemist 08/24/23

CO71465, CO71466

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 08/26/23 10:37 Tina Hall, Chemist 08/26/23

CO71467, CO71468, CO71469

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 692082 (CO72841)

CO71465, CO71466

All LCS recoveries were within 75 - 125 with the following exceptions: None.



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Certification Report

August 28, 2023

SDG I.D.: GCO71457

ICP Metals Narration

All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 692083 (CO71062)

CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464
All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 692084 (CO71174)

CO71467, CO71468, CO71469
All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 692494 (Samples: CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes and the surrogates, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Acenaphthylene, Naphthalene, % 2-Fluorobiphenyl, % Nitrobenzene-d5, % Terphenyl-d14)

Instrument:

CHEM06 08/15/23-1

Matt Richard, Chemist 08/15/23

CO71457 (1X), CO71458 (1X), CO71459 (1X), CO71460 (1X), CO71461 (1X), CO71462 (1X), CO71463 (1X), CO71464 (1X), CO71465 (1X), CO71466 (1X), CO71467 (1X), CO71468 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_BN_0728):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0815_09-6_BN_0728):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.



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RCP Certification Report

August 28, 2023

SDG I.D.: GCO71457

SVOA Narration

CHEM29 08/15/23-2

Matt Richard, Chemist 08/15/23

CO71469 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_BN_0807):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0815_18-29_BN_0807):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 692494 (CO71403)

CO71457, CO71458, CO71459, CO71460, CO71461, CO71462, CO71463, CO71464, CO71465, CO71466, CO71467, CO71468

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: % 2-Fluorobiphenyl(31.1%), % Nitrobenzene-d5(33.6%), % Terphenyl-d14(34.4%), Acenaphthylene(30.7%), Naphthalene(33.6%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 692515 (CO72118)

CO71469

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Temperature Narration

The samples were received at 4.3C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

1.3

Cooler: Yes No
 IPK ICE

Temp °C Pg 1 of 2

Data Delivery/Contact Options:

Fax:
 Phone:
 Email:

0u-fik

CT/MARI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: makrina@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-1102



Project P.O.: 17-5782-001
This section MUST be completed with Bottle Quantities.

Project: Brunard Airport
 Report to: Jane Disenieux Paulsen, Lucy W. Tye & Bond Westfield
 Invoice to: Tye & Bond Westfield
 Quote # DAS Pricing

Customer: Tye & Bond Inc
 Address: 213 Court Street 4th Floor
Middlebury, VT 05753

Client Sample - Information - Identification
 Sampler's Signature: [Signature] Date: 8/10/23
 Matrix Code: GW=Ground Water SW=Surface Water WW=Waste Water
 DW=Drinking Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil
 RW=Raw Water B=Bulk L=Liquid X=(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	MS/MSD (May be blank or reference)	ETAH (227)	PTCA (218)	PTCA (219)	PTCA (220)	PTCA (221)	PTCA (222)	PTCA (223)	PTCA (224)	PTCA (225)	PTCA (226)	PTCA (227)	PTCA (228)	PTCA (229)	PTCA (230)	PTCA (231)	PTCA (232)	PTCA (233)	PTCA (234)	PTCA (235)	PTCA (236)	PTCA (237)	PTCA (238)	PTCA (239)	PTCA (240)
71457	HA-48 (0-0.5)	S	8/10/23	0835		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71458	HA-49 (0-0.5)	S	8/10/23	0850		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71459	HA-50 (0-0.5)	S	8/10/23	0905		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71460	HA-51 (0-0.5)	S	8/10/23	0920		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71461	HA-52 (0-0.5)	S	8/10/23	1105		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71462	HA-53 (0-0.5)	S	8/10/23	0935		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71463	HA-54 (0-0.5)	S	8/10/23	1020		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71464	HA-55 (0-0.5)	S	8/10/23	0945		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71465	HA-56 (0-0.5)	S	8/10/23	1010		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71466	HA-57 (0-0.5)	S	8/10/23	1030		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71467	HA-58 (0-0.5)	S	8/10/23	1055		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
71468	HA-59 (0-0.5)	S	8/10/23	1045		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished by: [Signature] Accepted by: Phoenix Labs Lobby
 Date: 8/10/23 Time: 1210
810 1217
 Turnaround Time:
 1 Day* Standard
 2 Days* Other
 3 Days*
 4 Days*
 5 Days*
 Comments, Special Requirements or Regulations:
Please hold Sample 60 Day before discarded
 *MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted. *SURCHARGES MAY APPLY

RI RES DEC I/C DEC GA Leachability GB Leachability GA-GW Objectives GB-GW Objectives Other

CT RCP Cert GWPC SWPC GA PMC GB PMC SWPC RES DEC I/C DEC

MA MCP Certification GW-1 GW-2 GW-3 S-1 S-2 S-3 SW Protection

Data Format: Excel PDF GIS/Key EQUIS Other Excel/10/10/23

Data Package: Tier II Checklist* Full Data Package* Phoenix Std Other

* SURCHARGE APPLIES

1.3
Cooler: Yes No
Coolant: IPK ICE

Temp °C Pg 2 of 2

CTIMARI CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
 Fax
 Phone
 Email

Customer: Tyke A Bond Inc
Address: 215 Court Street 1st Floor
Middletown, CT 06457
Project: Branford Airport
Report to: JAMES DISNEY, Munk Paulson, Croydott
Invoice to: Tyke A Bond Westfield
Quote # WAS 2012-09-10
Project P.O.: 17-5787-00

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: [Signature] Date: 8/10/13
Matrix Code: GW=Ground Water SW=Surface Water WW=Waste Water
DW=Drinking Water RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil
B=Bulk L=Liquid X = (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	MS/MSD (they do not bill for this)	RES DEC	I/C DEC	GA Leachability	GB Leachability	GA-GW Objectives	GB-GW Objectives	Other
71469	Ramp CB1023	S	8/10/13	1046	RES DEC	X						
71470	Field Bulk	W	8/10/13	0950	I/C DEC	X						
71471	Equipment Wash	W	8/10/13	0955	GA Leachability	X						

Relinquished by: [Signature] Accepted by: [Signature] Date: 8/10/13 Time: 1210

Comments, Special Requirements or Regulations:
Please hold samples 60 days before discarding.

Turnaround Time:
 1 Day* Standard
 2 Days* Other
 3 Days*
 4 Days*
 5 Days*

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.



Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 08/23/2023
Client Project ID: CO71457-CO71467
York Project (SDG) No.: 23H0910

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/23/2023
Client Project ID: CO71457-CO71467
York Project (SDG) No.: 23H0910

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 11, 2023 and listed below. The project was identified as your project: **CO71457-CO71467**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23H0910-01	CO71457	Soil	08/10/2023	08/11/2023
23H0910-02	CO71458	Soil	08/10/2023	08/11/2023
23H0910-03	CO71459	Soil	08/10/2023	08/11/2023
23H0910-04	CO71460	Soil	08/10/2023	08/11/2023
23H0910-05	CO71461	Soil	08/10/2023	08/11/2023
23H0910-06	CO71462	Soil	08/10/2023	08/11/2023
23H0910-07	CO71463	Soil	08/10/2023	08/11/2023
23H0910-08	CO71464	Soil	08/10/2023	08/11/2023
23H0910-09	CO71465	Soil	08/10/2023	08/11/2023
23H0910-10	CO71466	Soil	08/10/2023	08/11/2023
23H0910-11	CO71467	Soil	08/10/2023	08/11/2023

General Notes for York Project (SDG) No.: 23H0910

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

Approved By: 

Date: 08/23/2023

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: CO71457 **York Sample ID:** 23H0910-01
York Project (SDG) No. 23H0910 **Client Project ID** CO71457-CO71467 **Matrix** Soil **Collection Date/Time** August 10, 2023 8:35 am **Date Received** 08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.298	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:45	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.298	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:45	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.298	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:45	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.14		ug/kg dry	0.298	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:45	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.298	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:45	ESJ
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		87.2 %	25-150							
Surrogate: M3PFHxS		67.0 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		83.1 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		75.3 %	25-150							
Surrogate: M9PFNA		87.8 %	25-150							

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.2		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71458 **York Sample ID:** 23H0910-02
York Project (SDG) No. 23H0910 **Client Project ID** CO71457-CO71467 **Matrix** Soil **Collection Date/Time** August 10, 2023 8:50 am **Date Received** 08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.308	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:58	ESJ



Sample Information

Client Sample ID: CO71458

York Sample ID: 23H0910-02

York Project (SDG) No. 23H0910 Client Project ID CO71457-CO71467 Matrix Soil Collection Date/Time August 10, 2023 8:50 am Date Received 08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.04		ug/kg dry	0.308	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:58	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.308	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:58	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	38.6		ug/kg dry	0.616	2	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 12:44	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.308	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 01:58	ESJ
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: M4PFHpA	79.1 %	25-150							
	Surrogate: M3PFHxS	70.3 %	25-150							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	81.8 %	25-150							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	60.7 %	25-150							
	Surrogate: M9PFNA	81.9 %	25-150							

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	80.4		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71459

York Sample ID: 23H0910-03

York Project (SDG) No. 23H0910 Client Project ID CO71457-CO71467 Matrix Soil Collection Date/Time August 10, 2023 9:05 am Date Received 08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.288	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:11	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.288	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:11	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.288	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:11	ESJ



Sample Information

Client Sample ID: CO71459

York Sample ID: 23H0910-03

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 9:05 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.84		ug/kg dry	0.288	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:11	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.288	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:11	ESJ
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: M4PFHpA	78.9 %	25-150							
	Surrogate: M3PFHxS	83.5 %	25-150							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	83.5 %	25-150							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	76.5 %	25-150							
	Surrogate: M9PFNA	96.4 %	25-150							

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	78.8		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71460

York Sample ID: 23H0910-04

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 9:20 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.342	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:24	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.342	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:24	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	0.371		ug/kg dry	0.342	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:24	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.87		ug/kg dry	0.342	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:24	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.342	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:24	ESJ



Sample Information

Client Sample ID: CO71460

York Sample ID: 23H0910-04

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 23H0910, CO71457-CO71467, Soil, August 10, 2023 9:20 am, 08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes Surrogate Recoveries for M4PFHpA, M3PFHxS, M8PFOA, M8PFOS, M9PFNA.

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Value: 71.5 % Solids.

Sample Information

Client Sample ID: CO71461

York Sample ID: 23H0910-05

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 23H0910, CO71457-CO71467, Soil, August 10, 2023 11:05 am, 08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various PFAS compounds like Perfluoroheptanoic acid (PFHpA), Perfluorooctanesulfonic acid (PFOS), etc.



Sample Information

Client Sample ID: CO71461

York Sample ID: 23H0910-05

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 11:05 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	69.9 %			25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	57.7 %			25-150					
	Surrogate: M9PFNA	70.7 %			25-150					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	79.1		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71462

York Sample ID: 23H0910-06

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 9:35 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:49	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:49	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	0.370		ug/kg dry	0.299	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:49	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.80		ug/kg dry	0.299	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:49	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.299	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 02:49	ESJ
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M4PFHpA	78.1 %		25-150						
	Surrogate: M3PFHxS	71.9 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	82.6 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	73.4 %		25-150						



Sample Information

Client Sample ID: CO71462

York Sample ID: 23H0910-06

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 9:35 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<i>Surrogate: M9PFNA</i>		86.6 %			25-150					

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	78.8		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71463

York Sample ID: 23H0910-07

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:20 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.336	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:02	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.336	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:02	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	0.497		ug/kg dry	0.336	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:02	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.29		ug/kg dry	0.336	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:02	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.336	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:02	ESJ
	Surrogate Recoveries	Result					Acceptance Range			
	<i>Surrogate: M4PFHpA</i>	83.8 %					25-150			
	<i>Surrogate: M3PFHxS</i>	79.9 %					25-150			
	<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	94.0 %					25-150			
	<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	79.4 %					25-150			
	<i>Surrogate: M9PFNA</i>	88.6 %					25-150			

Total Solids

Log-in Notes:

Sample Notes:

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

Client Sample ID: CO71463

York Sample ID: 23H0910-07

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:20 am	<u>Date Received</u> 08/11/2023
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Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	74.0		%	0.100	1	SM 2540G	08/16/2023 16:11	08/16/2023 16:15	AC
							Certifications:	CTDOH-PH-0723		

Sample Information

Client Sample ID: CO71464

York Sample ID: 23H0910-08

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 9:45 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.312	1	EPA 537m	08/17/2023 12:06	08/23/2023 03:15	ESJ
							Certifications:			
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.312	1	EPA 537m	08/17/2023 12:06	08/23/2023 03:15	ESJ
							Certifications:			
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.312	1	EPA 537m	08/17/2023 12:06	08/23/2023 03:15	ESJ
							Certifications:			
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.41		ug/kg dry	0.312	1	EPA 537m	08/17/2023 12:06	08/23/2023 03:15	ESJ
							Certifications:			
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.312	1	EPA 537m	08/17/2023 12:06	08/23/2023 03:15	ESJ
							Certifications:			

Surrogate Recoveries

Result

Acceptance Range

Surrogate: M4PFHpA	88.5 %	25-150
Surrogate: M3PFHxS	76.3 %	25-150
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	89.7 %	25-150
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	86.1 %	25-150
Surrogate: M9PFNA	93.1 %	25-150

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	75.3		%	0.100	1	SM 2540G	08/16/2023 16:11	08/16/2023 16:15	AC
							Certifications:	CTDOH-PH-0723		



Sample Information

Client Sample ID: CO71465

York Sample ID: 23H0910-09

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:10 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.305	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:41	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.305	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:41	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	0.452		ug/kg dry	0.305	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:41	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.66		ug/kg dry	0.305	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:41	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.305	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:41	ESJ
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M4PFHpA	75.2 %		25-150						
	Surrogate: M3PFHxS	70.9 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	71.9 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	51.0 %		25-150						
	Surrogate: M9PFNA	73.4 %		25-150						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	75.4		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71466

York Sample ID: 23H0910-10

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:30 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.310	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:55	ESJ



Sample Information

Client Sample ID: CO71466

York Sample ID: 23H0910-10

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:30 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.310	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:55	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.310	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:55	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.63		ug/kg dry	0.310	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:55	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.310	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 03:55	ESJ
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M4PFHpA	74.4 %		25-150						
	Surrogate: M3PFHxS	65.9 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	78.1 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	49.7 %		25-150						
	Surrogate: M9PFNA	68.4 %		25-150						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	79.0		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71467

York Sample ID: 23H0910-11

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:55 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:07	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:07	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:07	ESJ



Sample Information

Client Sample ID: CO71467

York Sample ID: 23H0910-11

<u>York Project (SDG) No.</u> 23H0910	<u>Client Project ID</u> CO71457-CO71467	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:55 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.750		ug/kg dry	0.297	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:07	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.297	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:07	ESJ
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: M4PFHpA	74.9 %	25-150							
	Surrogate: M3PFHxS	58.7 %	25-150							
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	81.6 %	25-150							
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	45.7 %	25-150							
	Surrogate: M9PFNA	70.0 %	25-150							

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.0		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC



Analytical Batch Summary

Batch ID: BH31125 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
23H0910-01	CO71457	08/16/23
23H0910-02	CO71458	08/16/23
23H0910-03	CO71459	08/16/23
23H0910-04	CO71460	08/16/23
23H0910-05	CO71461	08/16/23
23H0910-06	CO71462	08/16/23
23H0910-07	CO71463	08/16/23
23H0910-08	CO71464	08/16/23
23H0910-09	CO71465	08/16/23
23H0910-10	CO71466	08/16/23
23H0910-11	CO71467	08/16/23
BH31125-DUP1	Duplicate	08/16/23

Batch ID: BH31186 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** ER

YORK Sample ID	Client Sample ID	Preparation Date
23H0910-01	CO71457	08/17/23
23H0910-02	CO71458	08/17/23
23H0910-02RE1	CO71458	08/17/23
23H0910-03	CO71459	08/17/23
23H0910-04	CO71460	08/17/23
23H0910-05	CO71461	08/17/23
23H0910-06	CO71462	08/17/23
23H0910-07	CO71463	08/17/23
23H0910-08	CO71464	08/17/23
23H0910-09	CO71465	08/17/23
23H0910-10	CO71466	08/17/23
23H0910-11	CO71467	08/17/23
BH31186-BLK1	Blank	08/17/23
BH31186-BS1	LCS	08/17/23
BH31186-MS1	Matrix Spike	08/17/23
BH31186-MSD1	Matrix Spike Dup	08/17/23



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH31186 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BH31186-BLK1)

Prepared: 08/17/2023 Analyzed: 08/23/2023

Perfluoroheptanoic acid (PFHpA)	ND	0.245	ug/kg wet								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.245	"								
Perfluorooctanoic acid (PFOA)	ND	0.245	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.245	"								
Perfluorononanoic acid (PFNA)	ND	0.245	"								
<i>Surrogate: M4PFHpA</i>	4.64		"	4.91		94.6	25-150				
<i>Surrogate: M3PFHxS</i>	3.33		"	4.64		71.8	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PF OA)</i>	4.17		"	4.91		85.0	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PF OS)</i>	3.18		"	4.70		67.7	25-150				
<i>Surrogate: M9PFNA</i>	4.30		"	4.91		87.6	25-150				

LCS (BH31186-BS1)

Prepared: 08/17/2023 Analyzed: 08/23/2023

Perfluoroheptanoic acid (PFHpA)	4.18	0.235	ug/kg wet	4.71		88.7	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.76	0.235	"	4.28		111	50-130				
Perfluorooctanoic acid (PFOA)	4.70	0.235	"	4.71		99.8	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.92	0.235	"	4.35		113	50-130				
Perfluorononanoic acid (PFNA)	5.04	0.235	"	4.71		107	50-130				
<i>Surrogate: M4PFHpA</i>	4.77		"	4.71		101	25-150				
<i>Surrogate: M3PFHxS</i>	3.16		"	4.45		70.9	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PF OA)</i>	4.31		"	4.71		91.6	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PF OS)</i>	3.69		"	4.51		81.9	25-150				
<i>Surrogate: M9PFNA</i>	4.45		"	4.71		94.4	25-150				

Matrix Spike (BH31186-MS1)

*Source sample: 23H0914-02 (Matrix Spike)

Prepared: 08/17/2023 Analyzed: 08/23/2023

Perfluoroheptanoic acid (PFHpA)	5.53	0.279	ug/kg dry	5.58	0.0953	97.3	25-150				
Perfluorohexanesulfonic acid (PFHxS)	5.30	0.279	"	5.08	0.0676	103	25-150				
Perfluorooctanoic acid (PFOA)	5.52	0.279	"	5.58	ND	98.8	25-150				
Perfluorooctanesulfonic acid (PFOS)	6.97	0.279	"	5.17	1.39	108	25-150				
Perfluorononanoic acid (PFNA)	6.43	0.279	"	5.58	0.127	113	25-150				
<i>Surrogate: M4PFHpA</i>	4.95		"	5.58		88.6	25-150				
<i>Surrogate: M3PFHxS</i>	3.56		"	5.28		67.4	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PF OA)</i>	4.70		"	5.58		84.2	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PF OS)</i>	3.21		"	5.34		60.0	25-150				
<i>Surrogate: M9PFNA</i>	3.71		"	5.58		66.5	25-150				



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH31186 - SPE PFAS Extraction-Soil-EPA 537m

Matrix Spike Dup (BH31186-MSD1)	*Source sample: 23H0914-02 (Matrix Spike Dup)						Prepared: 08/17/2023 Analyzed: 08/23/2023				
Perfluoroheptanoic acid (PFHpA)	5.43	0.270	ug/kg dry	5.41	0.0953	98.7	25-150		1.76	35	
Perfluorohexanesulfonic acid (PFHxS)	4.86	0.270	"	4.92	0.0676	97.5	25-150		8.60	35	
Perfluorooctanoic acid (PFOA)	5.09	0.270	"	5.41	ND	94.1	25-150		8.08	35	
Perfluorooctanesulfonic acid (PFOS)	7.11	0.270	"	5.00	1.39	114	25-150		2.01	35	
Perfluorononanoic acid (PFNA)	5.38	0.270	"	5.41	0.127	97.1	25-150		17.8	35	
<i>Surrogate: M4PFHpA</i>	<i>3.91</i>		<i>"</i>	<i>5.41</i>		<i>72.4</i>	<i>25-150</i>				
<i>Surrogate: M3PFHxS</i>	<i>3.19</i>		<i>"</i>	<i>5.11</i>		<i>62.3</i>	<i>25-150</i>				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	<i>3.75</i>		<i>"</i>	<i>5.41</i>		<i>69.4</i>	<i>25-150</i>				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	<i>1.88</i>		<i>"</i>	<i>5.17</i>		<i>36.3</i>	<i>25-150</i>				
<i>Surrogate: M9PFNA</i>	<i>2.87</i>		<i>"</i>	<i>5.41</i>		<i>53.1</i>	<i>25-150</i>				



Miscellaneous Physical Parameters - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH31125 - % Solids Prep

Duplicate (BH31125-DUP1)	*Source sample: 23H0910-02 (CO71458)						Prepared & Analyzed: 08/16/2023				
% Solids	81.7	0.100	%		80.4				1.58	20	



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



CHAIN OF CUSTODY RECORD

Page 1 of 2

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Customer: York Analytical Laboratories

Address: 120 Research Drive
 Stratford, CT
 (203) 325-1371

Project #: GCO71457

Report to: HelenG@PhoenixLabs.com / Helen Geoghegan

Invoice to: AccountsPayable@PhoenixLabs.com

Quote# :

Contact Options:

Fax: 860-645-0823

Phone: 800-827-5426

Email: HelenG@PhoenixLabs.com

Project P.O.: GCO71457

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: _____ Date: _____

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
CO71457	CT DEEP list of 5	SOIL	8/10/2023	8:35 AM	X
CO71458	CT DEEP list of 5	SOIL	8/10/2023	8:50 AM	X
CO71459	CT DEEP list of 5	SOIL	8/10/2023	9:05 AM	X
CO71460	CT DEEP list of 5	SOIL	8/10/2023	9:20 AM	X
CO71461	CT DEEP list of 5	SOIL	8/10/2023	11:05 AM	X
CO71462	CT DEEP list of 5	SOIL	8/10/2023	9:35 AM	X
CO71463	CT DEEP list of 5	SOIL	8/10/2023	10:20 AM	X
CO71464	CT DEEP list of 5	SOIL	8/10/2023	9:45 AM	X
CO71465	CT DEEP list of 5	SOIL	8/10/2023	10:10 AM	X
CO71466	CT DEEP list of 5	SOIL	8/10/2023	10:30 AM	X
CO71467	CT DEEP list of 5	SOIL	8/10/2023	10:55 AM	X

Relinquished by: *[Signature]* **Accepted by:** *[Signature]* **Date:** 8/11/23 **Time:** 0710
 8/11/23 0848

Comments, Special Requirements or Regulations:

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.
 Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification not held for the analyses requested.



Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 08/23/2023
Client Project ID: CO71468-CO71471
York Project (SDG) No.: 23H0914

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 08/23/2023
Client Project ID: CO71468-CO71471
York Project (SDG) No.: 23H0914

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on August 11, 2023 and listed below. The project was identified as your project: **CO71468-CO71471**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23H0914-01	CO71468	Soil	08/10/2023	08/11/2023
23H0914-02	CO71469	Soil	08/10/2023	08/11/2023
23H0914-03	CO71470	Water	08/10/2023	08/11/2023
23H0914-04	CO71471	Water	08/10/2023	08/11/2023

General Notes for York Project (SDG) No.: 23H0914

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

Approved By: 

Date: 08/23/2023

Cassie L. Mosher
Laboratory Manager





Sample Information

Client Sample ID: CO71468

York Sample ID: 23H0914-01

<u>York Project (SDG) No.</u> 23H0914	<u>Client Project ID</u> CO71468-CO71471	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:45 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.289	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:20	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.289	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:20	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.289	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:20	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.11		ug/kg dry	0.289	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:20	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.289	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:20	ESJ
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		80.9 %	25-150							
Surrogate: M3PFHxS		68.4 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		87.5 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		57.0 %	25-150							
Surrogate: M9PFNA		71.3 %	25-150							

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.0		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71469

York Sample ID: 23H0914-02

<u>York Project (SDG) No.</u> 23H0914	<u>Client Project ID</u> CO71468-CO71471	<u>Matrix</u> Soil	<u>Collection Date/Time</u> August 10, 2023 10:46 am	<u>Date Received</u> 08/11/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:33	ESJ



Sample Information

Client Sample ID: CO71469

York Sample ID: 23H0914-02

York Project (SDG) No.
23H0914

Client Project ID
CO71468-CO71471

Matrix
Soil

Collection Date/Time
August 10, 2023 10:46 am

Date Received
08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE PFAS Extraction-Soil-EPA 537m

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:33	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:33	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.39		ug/kg dry	0.294	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:33	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ug/kg dry	0.294	1	EPA 537m Certifications:	08/17/2023 12:06	08/23/2023 04:33	ESJ
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M4PFHpA	85.4 %		25-150						
	Surrogate: M3PFHxS	58.0 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	84.4 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	52.7 %		25-150						
	Surrogate: M9PFNA	74.1 %		25-150						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.1		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	08/16/2023 16:11	08/16/2023 16:15	AC

Sample Information

Client Sample ID: CO71470

York Sample ID: 23H0914-03

York Project (SDG) No.
23H0914

Client Project ID
CO71468-CO71471

Matrix
Water

Collection Date/Time
August 10, 2023 9:50 am

Date Received
08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:17	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:17	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:17	ESJ



Sample Information

Client Sample ID: CO71470

York Sample ID: 23H0914-03

York Project (SDG) No.
23H0914

Client Project ID
CO71468-CO71471

Matrix
Water

Collection Date/Time
August 10, 2023 9:50 am

Date Received
08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:17	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:17	ESJ
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		130 %	25-150							
Surrogate: M3PFHxS		85.3 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		112 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		92.2 %	25-150							
Surrogate: M9PFNA		106 %	25-150							

Sample Information

Client Sample ID: CO71471

York Sample ID: 23H0914-04

York Project (SDG) No.
23H0914

Client Project ID
CO71468-CO71471

Matrix
Water

Collection Date/Time
August 10, 2023 9:55 am

Date Received
08/11/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:30	ESJ
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:30	ESJ
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:30	ESJ
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:30	ESJ
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	2.00	1	EPA 537m Certifications:	08/21/2023 14:07	08/22/2023 22:30	ESJ
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		96.3 %	25-150							
Surrogate: M3PFHxS		69.3 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		87.7 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		70.0 %	25-150							
Surrogate: M9PFNA		85.2 %	25-150							



Analytical Batch Summary

Batch ID: BH31125 **Preparation Method:** % Solids Prep **Prepared By:** AC

YORK Sample ID	Client Sample ID	Preparation Date
23H0914-01	CO71468	08/16/23
23H0914-02	CO71469	08/16/23
BH31125-DUP1	Duplicate	08/16/23

Batch ID: BH31186 **Preparation Method:** SPE PFAS Extraction-Soil-EPA 537m **Prepared By:** ER

YORK Sample ID	Client Sample ID	Preparation Date
23H0914-01	CO71468	08/17/23
23H0914-02	CO71469	08/17/23
BH31186-BLK1	Blank	08/17/23
BH31186-BS1	LCS	08/17/23
BH31186-MS1	Matrix Spike	08/17/23
BH31186-MSD1	Matrix Spike Dup	08/17/23

Batch ID: BH31405 **Preparation Method:** SPE Ext-PFAS-EPA 537.1M **Prepared By:** KFH

YORK Sample ID	Client Sample ID	Preparation Date
23H0914-03	CO71470	08/21/23
23H0914-04	CO71471	08/21/23
BH31405-BLK1	Blank	08/21/23
BH31405-BS1	LCS	08/21/23
BH31405-BSD1	LCS Dup	08/21/23
BH31405-MS1	Matrix Spike	08/21/23



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH31186 - SPE PFAS Extraction-Soil-EPA 537m

Blank (BH31186-BLK1)

Prepared: 08/17/2023 Analyzed: 08/23/2023

Perfluoroheptanoic acid (PFHpA)	ND	0.245	ug/kg wet								
Perfluorohexanesulfonic acid (PFHxS)	ND	0.245	"								
Perfluorooctanoic acid (PFOA)	ND	0.245	"								
Perfluorooctanesulfonic acid (PFOS)	ND	0.245	"								
Perfluorononanoic acid (PFNA)	ND	0.245	"								
<i>Surrogate: M4PFHpA</i>	4.64		"	4.91		94.6	25-150				
<i>Surrogate: M3PFHxS</i>	3.33		"	4.64		71.8	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PF OA)</i>	4.17		"	4.91		85.0	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PF OS)</i>	3.18		"	4.70		67.7	25-150				
<i>Surrogate: M9PFNA</i>	4.30		"	4.91		87.6	25-150				

LCS (BH31186-BS1)

Prepared: 08/17/2023 Analyzed: 08/23/2023

Perfluoroheptanoic acid (PFHpA)	4.18	0.235	ug/kg wet	4.71		88.7	50-130				
Perfluorohexanesulfonic acid (PFHxS)	4.76	0.235	"	4.28		111	50-130				
Perfluorooctanoic acid (PFOA)	4.70	0.235	"	4.71		99.8	50-130				
Perfluorooctanesulfonic acid (PFOS)	4.92	0.235	"	4.35		113	50-130				
Perfluorononanoic acid (PFNA)	5.04	0.235	"	4.71		107	50-130				
<i>Surrogate: M4PFHpA</i>	4.77		"	4.71		101	25-150				
<i>Surrogate: M3PFHxS</i>	3.16		"	4.45		70.9	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PF OA)</i>	4.31		"	4.71		91.6	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PF OS)</i>	3.69		"	4.51		81.9	25-150				
<i>Surrogate: M9PFNA</i>	4.45		"	4.71		94.4	25-150				

Matrix Spike (BH31186-MS1)

*Source sample: 23H0914-02 (CO71469)

Prepared: 08/17/2023 Analyzed: 08/23/2023

Perfluoroheptanoic acid (PFHpA)	5.53	0.279	ug/kg dry	5.58	0.0953	97.3	25-150				
Perfluorohexanesulfonic acid (PFHxS)	5.30	0.279	"	5.08	0.0676	103	25-150				
Perfluorooctanoic acid (PFOA)	5.52	0.279	"	5.58	ND	98.8	25-150				
Perfluorooctanesulfonic acid (PFOS)	6.97	0.279	"	5.17	1.39	108	25-150				
Perfluorononanoic acid (PFNA)	6.43	0.279	"	5.58	0.127	113	25-150				
<i>Surrogate: M4PFHpA</i>	4.95		"	5.58		88.6	25-150				
<i>Surrogate: M3PFHxS</i>	3.56		"	5.28		67.4	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PF OA)</i>	4.70		"	5.58		84.2	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PF OS)</i>	3.21		"	5.34		60.0	25-150				
<i>Surrogate: M9PFNA</i>	3.71		"	5.58		66.5	25-150				



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH31186 - SPE PFAS Extraction-Soil-EPA 537m

Matrix Spike Dup (BH31186-MSD1)	*Source sample: 23H0914-02 (CO71469)						Prepared: 08/17/2023 Analyzed: 08/23/2023				
Perfluoroheptanoic acid (PFHpA)	5.43	0.270	ug/kg dry	5.41	0.0953	98.7	25-150		1.76	35	
Perfluorohexanesulfonic acid (PFHxS)	4.86	0.270	"	4.92	0.0676	97.5	25-150		8.60	35	
Perfluorooctanoic acid (PFOA)	5.09	0.270	"	5.41	ND	94.1	25-150		8.08	35	
Perfluorooctanesulfonic acid (PFOS)	7.11	0.270	"	5.00	1.39	114	25-150		2.01	35	
Perfluorononanoic acid (PFNA)	5.38	0.270	"	5.41	0.127	97.1	25-150		17.8	35	
Surrogate: M4PFHpA	3.91		"	5.41		72.4	25-150				
Surrogate: M3PFHxS	3.19		"	5.11		62.3	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	3.75		"	5.41		69.4	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	1.88		"	5.17		36.3	25-150				
Surrogate: M9PFNA	2.87		"	5.41		53.1	25-150				

Batch BH31405 - SPE Ext-PFAS-EPA 537.1M

Blank (BH31405-BLK1)	Prepared: 08/21/2023 Analyzed: 08/22/2023										
Perfluoroheptanoic acid (PFHpA)	ND	2.00	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
Surrogate: M4PFHpA	75.7		"	80.0		94.6	25-150				
Surrogate: M3PFHxS	54.8		"	75.7		72.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	68.9		"	80.0		86.1	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	53.4		"	76.6		69.8	25-150				
Surrogate: M9PFNA	60.3		"	80.0		75.3	25-150				

LCS (BH31405-BS1)	Prepared: 08/21/2023 Analyzed: 08/22/2023										
Perfluoroheptanoic acid (PFHpA)	69.2	2.00	ng/L	80.0		86.5	50-130				
Perfluorohexanesulfonic acid (PFHxS)	78.9	2.00	"	72.8		108	50-130				
Perfluorooctanoic acid (PFOA)	73.4	2.00	"	80.0		91.8	50-130				
Perfluorooctanesulfonic acid (PFOS)	75.7	2.00	"	74.0		102	50-130				
Perfluorononanoic acid (PFNA)	71.5	2.00	"	80.0		89.4	50-130				
Surrogate: M4PFHpA	77.9		"	80.0		97.3	25-150				
Surrogate: M3PFHxS	60.3		"	75.7		79.6	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	76.5		"	80.0		95.7	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	66.9		"	76.6		87.4	25-150				
Surrogate: M9PFNA	80.5		"	80.0		101	25-150				



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH31405 - SPE Ext-PFAS-EPA 537.1M

LCS Dup (BH31405-BSD1)

Prepared: 08/21/2023 Analyzed: 08/22/2023

Perfluoroheptanoic acid (PFHpA)	78.0	2.00	ng/L	80.0		97.5	50-130		12.0	30	
Perfluorohexanesulfonic acid (PFHxS)	78.0	2.00	"	72.8		107	50-130		1.13	30	
Perfluorooctanoic acid (PFOA)	80.6	2.00	"	80.0		101	50-130		9.34	30	
Perfluorooctanesulfonic acid (PFOS)	81.1	2.00	"	74.0		110	50-130		6.91	30	
Perfluorononanoic acid (PFNA)	88.9	2.00	"	80.0		111	50-130		21.7	30	
Surrogate: M4PFHpA	72.5		"	80.0		90.6	25-150				
Surrogate: M3PFHxS	57.1		"	75.7		75.4	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	68.0		"	80.0		85.0	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	56.9		"	76.6		74.3	25-150				
Surrogate: M9PFNA	68.2		"	80.0		85.3	25-150				

Matrix Spike (BH31405-MS1)

*Source sample: 23H1435-01 (Matrix Spike)

Prepared: 08/21/2023 Analyzed: 08/23/2023

Perfluoroheptanoic acid (PFHpA)	39.0	0.926	ng/L	37.0	ND	105	25-150				
Perfluorohexanesulfonic acid (PFHxS)	36.9	0.926	"	33.7	0.516	108	25-150				
Perfluorooctanoic acid (PFOA)	36.9	0.926	"	37.0	4.48	87.5	25-150				
Perfluorooctanesulfonic acid (PFOS)	31.3	0.926	"	34.3	ND	91.3	25-150				
Perfluorononanoic acid (PFNA)	41.5	0.926	"	37.0	2.23	106	25-150				
Surrogate: M4PFHpA	26.2		"	37.0		70.7	25-150				
Surrogate: M3PFHxS	38.1		"	35.0		109	25-150				
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	33.1		"	37.0		89.4	25-150				
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	45.3		"	35.4		128	25-150				
Surrogate: M9PFNA	34.4		"	37.0		93.0	25-150				



Miscellaneous Physical Parameters - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BH31125 - % Solids Prep

Duplicate (BH31125-DUP1)	*Source sample: 23H0910-02 (Duplicate)						Prepared & Analyzed: 08/16/2023				
% Solids	81.7	0.100	%		80.4				1.58	20	



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Tighe&Bond

APPENDIX F



Friday, June 16, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO18107
Sample ID#s: CO18107 - CO18117

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

June 16, 2023

SDG I.D.: GCO18107

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 16, 2023

SDG I.D.: GCO18107

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
TMW-3	CO18107	GROUND WATER
TMW-6	CO18108	GROUND WATER
TMW-15	CO18109	GROUND WATER
TMW-18	CO18110	GROUND WATER
TMW-19	CO18111	GROUND WATER
TMW-23	CO18112	GROUND WATER
TMW-25	CO18113	GROUND WATER
TRIP BLANK	CO18114	GROUND WATER
DUP-1	CO18115	GROUND WATER
FIELD BLANK	CO18116	GROUND WATER
EQUIPMENT BLANK	CO18117	GROUND WATER



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

15:35
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18107

Project ID: BRAINARD AIRPORT
 Client ID: TMW-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/06/23	IE	SW6010D
Barium	0.087	0.002	mg/L	1	06/06/23	IE	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Chromium	0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/05/23	AL1	SW7470A
Nickel	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/06/23	IE	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/07/23	MGH	SW6020B
Vanadium	0.002	0.002	mg/L	1	06/06/23	IE	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/06/23	IE	SW6010D

Extraction of ETPH	Completed				06/07/23	X/K/MQ	SW3510C/SW3520C	
Mercury Digestion	Completed				06/02/23	ZT/ZT	SW7470A	
PCB Extraction	Completed				06/01/23	I/I	SW3510C	
Semi-Volatile Extraction	Completed				06/07/23	X/K	SW3520C	
Total Metals Digestion	Completed				06/01/23	AG	SW3010A	
Total Metals Digestion MS	Completed				06/01/23	AG	SW3010A	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	2.19	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Perfluorooctanesulfonic Acid (PFOS)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m C
Perfluorooctanoic acid (PFOA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m C
Total PFAS (5)	2.19	1.92	ng/L	1	06/13/23	***	EPA 537m C

QA/QC Surrogates

% M3PFHxS	156		%	1	06/13/23	***	25 - 150 % C,3
% M4PFHpA	118		%	1	06/13/23	***	25 - 150 % C
% M8PFOA	154		%	1	06/13/23	***	25 - 150 % C,3
% M8PFOS	157		%	1	06/13/23	***	25 - 150 % C,3
% M9PFNA	159		%	1	06/13/23	***	25 - 150 % C,3

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/08/23	JRB	CTETPH
Identification	ND		mg/L	1	06/08/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	76		%	1	06/08/23	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	0.47	ug/L	1	06/03/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/03/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/03/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/03/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/03/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/03/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/03/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/03/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/03/23	SC	SW8082A

QA/QC Surrogates

% DCBP	87		%	1	06/03/23	SC	30 - 150 %
% DCBP (Confirmation)	83		%	1	06/03/23	SC	30 - 150 %
% TCMX	74		%	1	06/03/23	SC	30 - 150 %
% TCMX (Confirmation)	73		%	1	06/03/23	SC	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Acetone	ND	25	ug/L	1	06/02/23	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	06/02/23	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Styrene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/02/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	116		%	1	06/02/23	HM	70 - 130 %
% Bromofluorobenzene	81		%	1	06/02/23	HM	70 - 130 %
% Dibromofluoromethane	103		%	1	06/02/23	HM	70 - 130 %
% Toluene-d8	77		%	1	06/02/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	06/10/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Chlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Nitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.7	ug/L	1	06/10/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Nitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Acetophenone	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Aniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Benzidine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Benzoic acid	ND	49	ug/L	1	06/10/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Carbazole	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenzofuran	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Hexachloroethane	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Isophorone	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
Phenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	83		%	1	06/10/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	78		%	1	06/10/23	KCA	30 - 130 %
% 2-Fluorophenol	<10		%	1	06/10/23	KCA	15 - 110 %
% Nitrobenzene-d5	85		%	1	06/10/23	KCA	30 - 130 %
% Phenol-d5	16		%	1	06/10/23	KCA	15 - 110 %
% Terphenyl-d14	72		%	1	06/10/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	88		%	1	06/09/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	06/09/23	KCA	30 - 130 %
% 2-Fluorophenol	<10		%	1	06/09/23	KCA	15 - 110 %
% Nitrobenzene-d5	88		%	1	06/09/23	KCA	30 - 130 %
% Phenol-d5	19		%	1	06/09/23	KCA	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	83		%	1	06/09/23	KCA	30 - 130 %

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

14:20
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18108

Project ID: BRAINARD AIRPORT
 Client ID: TMW-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/06/23	IE	SW6010D
Barium	0.114	0.002	mg/L	1	06/06/23	IE	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/05/23	AL1	SW7470A
Nickel	0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/06/23	IE	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/07/23	MGH	SW6020B
Vanadium	0.002	0.002	mg/L	1	06/06/23	IE	SW6010D
Zinc	0.008	0.004	mg/L	1	06/06/23	IE	SW6010D

Extraction of ETPH	Completed				06/07/23	X/K/MQ	SW3510C/SW3520C	
Mercury Digestion	Completed				06/02/23	ZT/ZT	SW7470A	
PCB Extraction	Completed				06/01/23	I/I	SW3510C	
Semi-Volatile Extraction	Completed				06/07/23	X/K	SW3520C	
Total Metals Digestion	Completed				06/01/23	AG	SW3010A	
Total Metals Digestion MS	Completed				06/01/23	AG	SW3010A	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	7.18	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	21.5	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Perfluorooctanesulfonic Acid (PFOS)	25.9	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	9.60	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	64.18	1.92	ng/L	1	06/13/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>								
% M3PFHxS	140		%	1	06/13/23	***	25 - 150 %	C
% M4PFHpA	105		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	159		%	1	06/13/23	***	25 - 150 %	C,3
% M8PFOS	156		%	1	06/13/23	***	25 - 150 %	C,3
% M9PFNA	159		%	1	06/13/23	***	25 - 150 %	C,3

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	06/08/23	JRB	CTETPH	
Identification	ND		mg/L	1	06/08/23	JRB	CTETPH	
<u>QA/QC Surrogates</u>								
% Terphenyl (surr)	79		%	1	06/08/23	JRB	50 - 150 %	

Polychlorinated Biphenyls

PCB-1016	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1221	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1232	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1242	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1248	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1254	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1260	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1262	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1268	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
<u>QA/QC Surrogates</u>								
% DCBP	85		%	1	06/03/23	SC	30 - 150 %	
% DCBP (Confirmation)	84		%	1	06/03/23	SC	30 - 150 %	
% TCMX	80		%	1	06/03/23	SC	30 - 150 %	
% TCMX (Confirmation)	79		%	1	06/03/23	SC	30 - 150 %	

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dibromoethane	ND	0.25	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Acetone	ND	25	ug/L	1	06/02/23	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	06/02/23	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Styrene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/02/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	116		%	1	06/02/23	HM	70 - 130 %
% Bromofluorobenzene	80		%	1	06/02/23	HM	70 - 130 %
% Dibromofluoromethane	100		%	1	06/02/23	HM	70 - 130 %
% Toluene-d8	76		%	1	06/02/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	06/10/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Chlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Nitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.7	ug/L	1	06/10/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Nitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Acetophenone	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Aniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Benzidine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Benzoic acid	ND	49	ug/L	1	06/10/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Carbazole	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenzofuran	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Hexachloroethane	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Isophorone	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
Phenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	97		%	1	06/10/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	86		%	1	06/10/23	KCA	30 - 130 %
% 2-Fluorophenol	47		%	1	06/10/23	KCA	15 - 110 %
% Nitrobenzene-d5	94		%	1	06/10/23	KCA	30 - 130 %
% Phenol-d5	66		%	1	06/10/23	KCA	15 - 110 %
% Terphenyl-d14	78		%	1	06/10/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	103		%	1	06/09/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	75		%	1	06/09/23	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	06/09/23	KCA	15 - 110 %
% Nitrobenzene-d5	93		%	1	06/09/23	KCA	30 - 130 %
% Phenol-d5	82		%	1	06/09/23	KCA	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	84		%	1	06/09/23	KCA	30 - 130 %

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

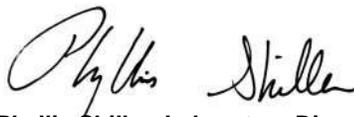
Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

11:20
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18109

Project ID: BRAINARD AIRPORT
 Client ID: TMW-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/06/23	IE	SW6010D
Barium	0.014	0.002	mg/L	1	06/06/23	IE	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/05/23	AL1	SW7470A
Nickel	0.002	0.001	mg/L	1	06/06/23	IE	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/06/23	IE	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/07/23	MGH	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/06/23	IE	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/06/23	IE	SW6010D

Extraction of ETPH	Completed				06/07/23	X/K/MQ	SW3510C/SW3520C	
Mercury Digestion	Completed				06/02/23	ZT/ZT	SW7470A	
PCB Extraction	Completed				06/01/23	I/I	SW3510C	
Semi-Volatile Extraction	Completed				06/07/23	X/K	SW3520C	
Total Metals Digestion	Completed				06/01/23	AG	SW3010A	
Total Metals Digestion MS	Completed				06/01/23	AG	SW3010A	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	2.46	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.85	ng/L	1	06/13/23	***	EPA 537m	C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Perfluorooctanesulfonic Acid (PFOS)	ND	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	2.01	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	4.47	1.85	ng/L	1	06/13/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>								
% M3PFHxS	151		%	1	06/13/23	***	25 - 150 %	C,3
% M4PFHpA	121		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	158		%	1	06/13/23	***	25 - 150 %	C,3
% M8PFOS	152		%	1	06/13/23	***	25 - 150 %	C,3
% M9PFNA	145		%	1	06/13/23	***	25 - 150 %	C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.069	mg/L	1	06/08/23	JRB	CTETPH	
Identification	ND		mg/L	1	06/08/23	JRB	CTETPH	
<u>QA/QC Surrogates</u>								
% Terphenyl (surr)	72		%	1	06/08/23	JRB	50 - 150 %	

Polychlorinated Biphenyls

PCB-1016	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1221	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1232	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1242	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1248	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1254	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1260	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1262	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1268	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
<u>QA/QC Surrogates</u>								
% DCBP	63		%	1	06/03/23	SC	30 - 150 %	
% DCBP (Confirmation)	64		%	1	06/03/23	SC	30 - 150 %	
% TCMX	73		%	1	06/03/23	SC	30 - 150 %	
% TCMX (Confirmation)	73		%	1	06/03/23	SC	30 - 150 %	

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dibromoethane	ND	0.25	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Acetone	ND	25	ug/L	1	06/02/23	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	06/02/23	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Styrene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/02/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	114		%	1	06/02/23	HM	70 - 130 %
% Bromofluorobenzene	81		%	1	06/02/23	HM	70 - 130 %
% Dibromofluoromethane	105		%	1	06/02/23	HM	70 - 130 %
% Toluene-d8	76		%	1	06/02/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/10/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	06/10/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Acetophenone	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Aniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Benzidine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Benzoic acid	ND	47	ug/L	1	06/10/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Carbazole	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenzofuran	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Hexachloroethane	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Isophorone	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
Phenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	99		%	1	06/10/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	82		%	1	06/10/23	KCA	30 - 130 %
% 2-Fluorophenol	56		%	1	06/10/23	KCA	15 - 110 %
% Nitrobenzene-d5	84		%	1	06/10/23	KCA	30 - 130 %
% Phenol-d5	69		%	1	06/10/23	KCA	15 - 110 %
% Terphenyl-d14	74		%	1	06/10/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	99		%	1	06/09/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	70		%	1	06/09/23	KCA	30 - 130 %
% 2-Fluorophenol	64		%	1	06/09/23	KCA	15 - 110 %
% Nitrobenzene-d5	83		%	1	06/09/23	KCA	30 - 130 %
% Phenol-d5	82		%	1	06/09/23	KCA	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	85		%	1	06/09/23	KCA	30 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	0.20	ug/l	1	06/08/23	AW	SW8270DSIM
<u>QA/QC Surrogates</u>							
% 1,4-dioxane-d8	78		%	1	06/08/23	AW	70 - 130 %
Extraction for 1,4-Dioxane	Completed				06/07/23	G/G	

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

8:30
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18110

Project ID: BRAINARD AIRPORT
 Client ID: TMW-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/06/23	IE	SW6010D
Barium	0.067	0.002	mg/L	1	06/06/23	IE	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/05/23	AL1	SW7470A
Nickel	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/06/23	IE	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/07/23	MGH	SW6020B
Vanadium	0.003	0.002	mg/L	1	06/06/23	IE	SW6010D
Zinc	0.008	0.004	mg/L	1	06/06/23	IE	SW6010D
Extraction of ETPH	Completed				06/07/23	X/K/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/02/23	ZT/ZT	SW7470A
PCB Extraction	Completed				06/01/23	I/I	SW3510C
Semi-Volatile Extraction	Completed				06/07/23	X/K	SW3520C
Total Metals Digestion	Completed				06/01/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/01/23	AG	SW3010A
PFAS (CT)	Completed				06/08/23	***	EPA 537m

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	37.1	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	172	19.2	ng/L	10	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	6.27	1.92	ng/L	1	06/13/23	***	EPA 537m	C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Perfluorooctanesulfonic Acid (PFOS)	501	19.2	ng/L	10	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	84.8	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	801.2	1.92	ng/L	1	06/13/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>								
% M4PFHpA	66.2		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	178		%	1	06/13/23	***	25 - 150 %	C,3
% M9PFNA	190		%	1	06/13/23	***	25 - 150 %	C,3
% M3PFHxS(10X)	201		%	10	06/13/23	***	25 - 150 %	C,3
% M8PFOS(10X)	202		%	10	06/13/23	***	25 - 150 %	C,3

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/08/23	JRB	CTETPH	
Identification	ND		mg/L	1	06/08/23	JRB	CTETPH	
<u>QA/QC Surrogates</u>								
% Terphenyl (surr)	77		%	1	06/08/23	JRB	50 - 150 %	

Polychlorinated Biphenyls

PCB-1016	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1221	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1232	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1242	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1248	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1254	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1260	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1262	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1268	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
<u>QA/QC Surrogates</u>								
% DCBP	71		%	1	06/03/23	SC	30 - 150 %	
% DCBP (Confirmation)	70		%	1	06/03/23	SC	30 - 150 %	
% TCMX	67		%	1	06/03/23	SC	30 - 150 %	
% TCMX (Confirmation)	67		%	1	06/03/23	SC	30 - 150 %	

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dibromoethane	ND	0.25	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Acetone	ND	25	ug/L	1	06/02/23	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	06/02/23	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Styrene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/02/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	115		%	1	06/02/23	HM	70 - 130 %
% Bromofluorobenzene	81		%	1	06/02/23	HM	70 - 130 %
% Dibromofluoromethane	106		%	1	06/02/23	HM	70 - 130 %
% Toluene-d8	76		%	1	06/02/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	06/10/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Chlorophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
2-Nitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.7	ug/L	1	06/10/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
4-Nitrophenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Acetophenone	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Aniline	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Benzidine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Benzoic acid	ND	49	ug/L	1	06/10/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Carbazole	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenzofuran	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Hexachloroethane	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
Isophorone	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	06/10/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
Phenol	ND	0.97	ug/L	1	06/10/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	104		%	1	06/10/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	85		%	1	06/10/23	KCA	30 - 130 %
% 2-Fluorophenol	43		%	1	06/10/23	KCA	15 - 110 %
% Nitrobenzene-d5	81		%	1	06/10/23	KCA	30 - 130 %
% Phenol-d5	56		%	1	06/10/23	KCA	15 - 110 %
% Terphenyl-d14	67		%	1	06/10/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benz(a)anthracene	0.07	0.05	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyrene	0.50	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	06/09/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	103		%	1	06/09/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	72		%	1	06/09/23	KCA	30 - 130 %
% 2-Fluorophenol	52		%	1	06/09/23	KCA	15 - 110 %
% Nitrobenzene-d5	84		%	1	06/09/23	KCA	30 - 130 %
% Phenol-d5	72		%	1	06/09/23	KCA	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	80		%	1	06/09/23	KCA	30 - 130 %

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

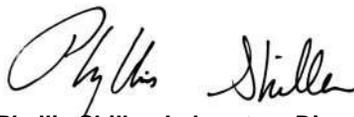
Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

9:45
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18111

Project ID: BRAINARD AIRPORT
 Client ID: TMW-19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Arsenic	0.005	0.004	mg/L	1	06/06/23	IE	SW6010D
Barium	0.057	0.002	mg/L	1	06/06/23	IE	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/05/23	AL1	SW7470A
Nickel	0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Lead	0.001	0.001	mg/L	1	06/06/23	IE	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/06/23	IE	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/06/23	IE	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/07/23	MGH	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/06/23	IE	SW6010D
Zinc	0.008	0.004	mg/L	1	06/06/23	IE	SW6010D

Extraction of ETPH	Completed				06/07/23	X/K/MQ	SW3510C/SW3520C	
Mercury Digestion	Completed				06/02/23	ZT/ZT	SW7470A	
PCB Extraction	Completed				06/01/23	I/I	SW3510C	
Semi-Volatile Extraction	Completed				06/07/23	X/K	SW3520C	
Total Metals Digestion	Completed				06/01/23	AG	SW3010A	
Total Metals Digestion MS	Completed				06/01/23	AG	SW3010A	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Perfluorooctanesulfonic Acid (PFOS)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>								
% M3PFHxS	161		%	1	06/13/23	***	25 - 150 %	C,3
% M4PFHpA	130		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	171		%	1	06/13/23	***	25 - 150 %	C,3
% M8PFOS	166		%	1	06/13/23	***	25 - 150 %	C,3
% M9PFNA	166		%	1	06/13/23	***	25 - 150 %	C,3

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/08/23	JRB	CTETPH	
Identification	ND		mg/L	1	06/08/23	JRB	CTETPH	
<u>QA/QC Surrogates</u>								
% Terphenyl (surr)	77		%	1	06/08/23	JRB	50 - 150 %	

Polychlorinated Biphenyls

PCB-1016	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1221	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1232	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1242	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1248	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1254	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1260	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1262	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
PCB-1268	ND	0.47	ug/L	1	06/03/23	SC	SW8082A	
<u>QA/QC Surrogates</u>								
% DCBP	68		%	1	06/03/23	SC	30 - 150 %	
% DCBP (Confirmation)	65		%	1	06/03/23	SC	30 - 150 %	
% TCMX	71		%	1	06/03/23	SC	30 - 150 %	
% TCMX (Confirmation)	71		%	1	06/03/23	SC	30 - 150 %	

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C	
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dibromoethane	ND	0.25	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	06/02/23	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Acetone	ND	25	ug/L	1	06/02/23	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	06/02/23	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Styrene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/02/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	117		%	1	06/02/23	HM	70 - 130 %
% Bromofluorobenzene	80		%	1	06/02/23	HM	70 - 130 %
% Dibromofluoromethane	104		%	1	06/02/23	HM	70 - 130 %
% Toluene-d8	114		%	1	06/02/23	HM	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/10/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	06/10/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Acetophenone	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Aniline	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Benzidine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Benzoic acid	ND	47	ug/L	1	06/10/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Carbazole	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenzofuran	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Hexachloroethane	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
Isophorone	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	06/10/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/10/23	KCA	SW8270D
Phenol	ND	0.94	ug/L	1	06/10/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	102		%	1	06/10/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	80		%	1	06/10/23	KCA	30 - 130 %
% 2-Fluorophenol	56		%	1	06/10/23	KCA	15 - 110 %
% Nitrobenzene-d5	80		%	1	06/10/23	KCA	30 - 130 %
% Phenol-d5	68		%	1	06/10/23	KCA	15 - 110 %
% Terphenyl-d14	77		%	1	06/10/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	06/09/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	102		%	1	06/09/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	67		%	1	06/09/23	KCA	30 - 130 %
% 2-Fluorophenol	61		%	1	06/09/23	KCA	15 - 110 %
% Nitrobenzene-d5	81		%	1	06/09/23	KCA	30 - 130 %
% Phenol-d5	79		%	1	06/09/23	KCA	15 - 110 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	84		%	1	06/09/23	KCA	30 - 130 %

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

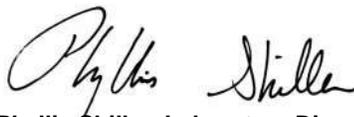
Comments:

*See attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

13:05
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18112

Project ID: BRAINARD AIRPORT
 Client ID: TMW-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.001	0.001	mg/L	1	06/06/23	TH	SW6010D	
Arsenic	< 0.004	0.004	mg/L	1	06/06/23	TH	SW6010D	
Barium	0.035	0.002	mg/L	1	06/06/23	TH	SW6010D	
Cadmium	< 0.001	0.001	mg/L	1	06/06/23	TH	SW6010D	
Chromium	< 0.001	0.001	mg/L	1	06/06/23	TH	SW6010D	
Mercury	< 0.0002	0.0002	mg/L	1	06/05/23	AL1	SW7470A	
Lead	0.002	0.001	mg/L	1	06/06/23	TH	SW6010D	
Selenium	< 0.010	0.010	mg/L	1	06/06/23	TH	SW6010D	
Extraction of ETPH	Completed				06/07/23	X/K/MQ	SW3510C/SW3520C	
Mercury Digestion	Completed				06/02/23	ZT/ZT	SW7470A	
Semi-Volatile Extraction	Completed				06/06/23	X/K	SW3520C	
Total Metals Digestion	Completed				06/05/23	AG	SW3010A	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	1.99	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	2.47	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	2.52	1.85	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	6.98	1.85	ng/L	1	06/13/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	164		%	1	06/13/23	***	25 - 150 %	C,3
% M4PFHpA	135		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	175		%	1	06/13/23	***	25 - 150 %	C,3
% M8PFOS	178		%	1	06/13/23	***	25 - 150 %	C,3
% M9PFNA	179		%	1	06/13/23	***	25 - 150 %	C,3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.069	mg/L	1	06/08/23	JRB	CTETPH
Identification	ND		mg/L	1	06/08/23	JRB	CTETPH
QA/QC Surrogates							
% Terphenyl (surr)	79		%	1	06/08/23	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Acetone	ND	25	ug/L	1	06/02/23	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	06/02/23	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromochloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Styrene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/02/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	115		%	1	06/02/23	HM	70 - 130 %
% Bromofluorobenzene	79		%	1	06/02/23	HM	70 - 130 %
% Dibromofluoromethane	100		%	1	06/02/23	HM	70 - 130 %
% Toluene-d8	114		%	1	06/02/23	HM	70 - 130 %
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.51	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Acenaphthene	0.53	0.51	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Acenaphthylene	0.39	0.30	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Anthracene	ND	0.51	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benz(a)anthracene	0.09	0.05	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Chrysene	ND	0.51	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.51	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Fluorene	ND	0.51	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/07/23	KCA	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	0.51	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Pyrene	ND	0.51	ug/L	1	06/07/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	06/07/23	KCA	30 - 130 %
% Nitrobenzene-d5	97		%	1	06/07/23	KCA	30 - 130 %
% Terphenyl-d14	85		%	1	06/07/23	KCA	30 - 130 %

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

16:45
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18113

Project ID: BRAINARD AIRPORT
 Client ID: TMW-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.001	0.001	mg/L	1	06/06/23	TH	SW6010D	
Arsenic	0.010	0.004	mg/L	1	06/06/23	TH	SW6010D	
Barium	0.040	0.002	mg/L	1	06/06/23	TH	SW6010D	
Cadmium	< 0.001	0.001	mg/L	1	06/06/23	TH	SW6010D	
Chromium	< 0.001	0.001	mg/L	1	06/06/23	TH	SW6010D	
Mercury	< 0.0002	0.0002	mg/L	1	06/05/23	AL1	SW7470A	
Lead	< 0.001	0.001	mg/L	1	06/06/23	TH	SW6010D	
Selenium	< 0.010	0.010	mg/L	1	06/06/23	TH	SW6010D	
Extraction of ETPH	Completed				06/07/23	X/K/MQ	SW3510C/SW3520C	
Mercury Digestion	Completed				06/02/23	ZT/ZT	SW7470A	
Semi-Volatile Extraction	Completed				06/06/23	X/K	SW3520C	
Total Metals Digestion	Completed				06/05/23	AG	SW3010A	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C

PFAS (CT)

Perfluoroheptanoic acid (PFHpA)	15.0	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	6.85	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	2.09	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	11.1	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	35.04	1.92	ng/L	1	06/13/23	***	EPA 537m	C

QA/QC Surrogates

% M3PFHxS	165		%	1	06/13/23	***	25 - 150 %	C,3
% M4PFHpA	130		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	184		%	1	06/13/23	***	25 - 150 %	C,3
% M8PFOS	175		%	1	06/13/23	***	25 - 150 %	C,3
% M9PFNA	183		%	1	06/13/23	***	25 - 150 %	C,3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/08/23	JRB	CTETPH
Identification	ND		mg/L	1	06/08/23	JRB	CTETPH
QA/QC Surrogates							
% Terphenyl (surr)	77		%	1	06/08/23	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Acetone	ND	25	ug/L	1	06/02/23	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	06/02/23	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromochloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Styrene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/02/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	112		%	1	06/02/23	HM	70 - 130 %
% Bromofluorobenzene	82		%	1	06/02/23	HM	70 - 130 %
% Dibromofluoromethane	103		%	1	06/02/23	HM	70 - 130 %
% Toluene-d8	115		%	1	06/02/23	HM	70 - 130 %
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/07/23	KCA	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	0.49	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/07/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/07/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	06/07/23	KCA	30 - 130 %
% Nitrobenzene-d5	95		%	1	06/07/23	KCA	30 - 130 %
% Terphenyl-d14	86		%	1	06/07/23	KCA	30 - 130 %

3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: B
Analyzed by: see "By" below

Date

06/01/23
06/01/23

Time

17:55

Laboratory Data

SDG ID: GCO18107
Phoenix ID: CO18114

Project ID: BRAINARD AIRPORT
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/02/23	HM	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/02/23	HM	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	06/02/23	HM	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Bromoform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloroform	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/02/23	HM	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Styrene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/02/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/02/23	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/02/23	HM	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/02/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	113		%	1	06/02/23	HM	70 - 130 %
% Bromofluorobenzene	82		%	1	06/02/23	HM	70 - 130 %
% Dibromofluoromethane	105		%	1	06/02/23	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	78		%	1	06/02/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

14:21
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18115

Project ID: BRAINARD AIRPORT
 Client ID: DUP-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C
<u>PFAS (CT)</u>								
Perfluoroheptanoic acid (PFHpA)	6.86	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	21.0	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	1.93	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	25.4	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	7.75	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	62.94	1.92	ng/L	1	06/13/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>								
% M3PFHxS	137		%	1	06/13/23	***	25 - 150 %	C
% M4PFHpA	99.9		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	159		%	1	06/13/23	***	25 - 150 %	C,3
% M8PFOS	144		%	1	06/13/23	***	25 - 150 %	C
% M9PFNA	151		%	1	06/13/23	***	25 - 150 %	C,3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

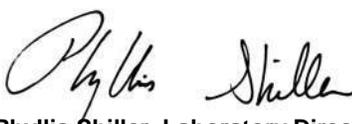
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

16:55
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18116

Project ID: BRAINARD AIRPORT
 Client ID: FIELD BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C
<u>PFAS (CT)</u>								
Perfluoroheptanoic acid (PFHpA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>								
% M3PFHxS	140		%	1	06/13/23	***	25 - 150 %	C
% M4PFHpA	117		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	148		%	1	06/13/23	***	25 - 150 %	C
% M8PFOS	147		%	1	06/13/23	***	25 - 150 %	C
% M9PFNA	154		%	1	06/13/23	***	25 - 150 %	C,3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.
C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: B
 Analyzed by: see "By" below

Date

06/01/23
 06/01/23

Time

17:05
 17:55

Laboratory Data

SDG ID: GCO18107
 Phoenix ID: CO18117

Project ID: BRAINARD AIRPORT
 Client ID: EQUIPMENT BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
PFAS (CT)	Completed				06/08/23	***	EPA 537m	C
<u>PFAS (CT)</u>								
Perfluoroheptanoic acid (PFHpA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorohexanesulfonic Acid (PFHxS)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorononanoic acid (PFNA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanesulfonic Acid (PFOS)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Perfluorooctanoic acid (PFOA)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
Total PFAS (5)	ND	1.92	ng/L	1	06/13/23	***	EPA 537m	C
<u>QA/QC Surrogates</u>								
% M3PFHxS	126		%	1	06/13/23	***	25 - 150 %	C
% M4PFHpA	97.9		%	1	06/13/23	***	25 - 150 %	C
% M8PFOA	123		%	1	06/13/23	***	25 - 150 %	C
% M8PFOS	130		%	1	06/13/23	***	25 - 150 %	C
% M9PFNA	126		%	1	06/13/23	***	25 - 150 %	C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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C = This parameter is subcontracted.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

*See attached

PFAS (CT) (EPA 537m), PFOA/PFOS - Water Extraction (EPA 537m) were analyzed by CT certified lab #PH-0721.

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Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 16, 2023

QA/QC Data

SDG I.D.: GCO18107

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 680469 (mg/L), QC Sample No: CO18113 (CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	92.1			91.7			80 - 120	20
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Comment:

* UNABLE TO GET PH BELOW 7

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 680418 (mg/L), QC Sample No: CO17158 (CO18107, CO18108, CO18109, CO18110, CO18111)

ICP Metals - Aqueous

Antimony	BRL	0.005	<0.005	<0.005	NC	100	101	1.0	98.7			80 - 120	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.5	99.2	0.7	96.9			80 - 120	20
Barium	BRL	0.002	0.076	0.076	0	97.5	98.6	1.1	94.4			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	95.4	96.8	1.5	92.8			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	94.7	96.2	1.6	90.4			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	98.9	99.7	0.8	95.6			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	102	103	1.0	101			80 - 120	20
Lead	BRL	0.001	<0.001	<0.001	NC	97.0	98.0	1.0	95.5			80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	98.8	99.6	0.8	95.3			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	97.4	97.4	0.0	95.1			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	102	103	1.0	101			80 - 120	20
Vanadium	BRL	0.002	0.002	0.003	NC	97.7	99.2	1.5	95.1			80 - 120	20
Zinc	BRL	0.004	<0.004	<0.004	NC	97.5	98.7	1.2	95.3			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 680779 (mg/L), QC Sample No: CO18488 (CO18112, CO18113)

ICP Metals - Aqueous

Arsenic	BRL	0.004	0.006	<0.004	NC	96.5	96.1	0.4	97.8			80 - 120	20
Barium	BRL	0.002	0.059	0.056	5.20	98.0	96.5	1.5	98.2			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	96.3	93.7	2.7	95.7			80 - 120	20
Chromium	BRL	0.001	0.024	0.022	8.70	96.9	94.9	2.1	96.7			80 - 120	20
Lead	BRL	0.001	0.021	0.018	15.4	96.8	96.9	0.1	97.7			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	95.9	94.4	1.6	97.4			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	98.2	98.9	0.7	101			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 680419 (mg/L), QC Sample No: CO17157 5X (CO18107, CO18108, CO18109, CO18110, CO18111)

ICP MS Metals - Aqueous

Thallium	BRL	0.0005	<0.0005	<0.0005	NC	99.2	101	1.8	98.4			80 - 120	20
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 16, 2023

QA/QC Data

SDG I.D.: GCO18107

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 682348 (ng/L), QC Sample No: CO18107 (CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113, CO18115, CO18116, CO18117)

PFOA & PFOS

PFHpA	ND	2.00	95.6	105	9.87				50 - 130	30
PFHxS	ND	2.00	79.4	81.5	2.57				50 - 130	30
PFNA	ND	2.00	80.6	81.9	1.60				50 - 130	30
PFOA	ND	2.00	75.0	78.7	4.83				50 - 130	30
PFOS	ND	2.00	91.4	97.6	6.56				50 - 130	30
% M3PFHxS	128	0.100	125	137	9.2				25 - 150	
% M4PFHpA	112	0.100	105	111	5.6				25 - 150	
% M8PFOA	150	0.100	138	146	5.6				25 - 150	
% M8PFOS	136	0.100	129	134	3.8				25 - 150	
% M9PFNA	148	0.100	141	146	3.5				25 - 150	

QA/QC Batch 681109 (ug/l), QC Sample No: CO17835 (CO18109)

1,4-dioxane - Ground Water

1,4-dioxane	ND	0.20	105	87	18.8	96			70 - 130	20
% 1,4-dioxane-d8	88	%	90	78	14.3	82			70 - 130	20

QA/QC Batch 681253 (mg/L), QC Sample No: CO18108 (CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	95	90	5.4				60 - 120	30
% Terphenyl (surr)	80	%	80	80	0.0				50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 680403 (ug/L), QC Sample No: CO17712 (CO18107, CO18108, CO18109, CO18110, CO18111)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.050	75	77	2.6				40 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	89	87	2.3				40 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	72	%	60	86	35.6				30 - 150	20
% DCBP (Surrogate Rec) (Confirm	70	%	57	84	38.3				30 - 150	20
% TCMX (Surrogate Rec)	52	%	70	65	7.4				30 - 150	20
% TCMX (Surrogate Rec) (Confirm	52	%	71	65	8.8				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Data

SDG I.D.: GCO18107

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 681180 (ug/L), QC Sample No: CO17751 (CO18107, CO18108, CO18109, CO18110, CO18111)											
<u>Semivolatiles - Ground Water</u>											
1,2,4,5-Tetrachlorobenzene	ND	3.5	84	85	1.2				40 - 140	20	
1,2,4-Trichlorobenzene	ND	3.5	86	85	1.2				40 - 140	20	
1,2-Dichlorobenzene	ND	1.0	85	80	6.1				40 - 140	20	
1,2-Diphenylhydrazine	ND	1.6	87	79	9.6				40 - 140	20	
1,3-Dichlorobenzene	ND	1.0	88	79	10.8				40 - 140	20	
1,4-Dichlorobenzene	ND	1.0	89	79	11.9				40 - 140	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	91	84	8.0				40 - 140	20	
2,4,5-Trichlorophenol	ND	1.0	97	90	7.5				40 - 140	20	
2,4,6-Trichlorophenol	ND	1.0	104	95	9.0				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	96	95	1.0				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	98	96	2.1				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	75	74	1.3				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	108	103	4.7				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	96	91	5.3				40 - 140	20	
2-Chloronaphthalene	ND	3.5	88	80	9.5				40 - 140	20	
2-Chlorophenol	ND	1.0	87	80	8.4				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	88	81	8.3				40 - 140	20	
2-Nitroaniline	ND	3.5	98	108	9.7				40 - 140	20	
2-Nitrophenol	ND	1.0	95	90	5.4				40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	88	83	5.8				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	<10	<10	NC				40 - 140	20	I
3-Nitroaniline	ND	5.0	63	61	3.2				40 - 140	20	
4,6-Dinitro-2-methylphenol	ND	1.0	86	84	2.4				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	94	91	3.2				40 - 140	20	
4-Chloro-3-methylphenol	ND	1.0	108	106	1.9				30 - 130	20	
4-Chloroaniline	ND	3.5	43	43	0.0				40 - 140	20	
4-Chlorophenyl phenyl ether	ND	1.0	92	87	5.6				40 - 140	20	
4-Nitroaniline	ND	5.0	107	98	8.8				40 - 140	20	
4-Nitrophenol	ND	1.0	106	99	6.8				30 - 130	20	
Acetophenone	ND	3.5	87	81	7.1				40 - 140	20	
Aniline	ND	3.5	13	17	26.7				40 - 140	20	I,r
Benzidine	ND	4.5	<10	<10	NC				40 - 140	20	I
Benzoic acid	ND	10	116	123	5.9				30 - 130	20	
Benzyl butyl phthalate	ND	1.5	114	98	15.1				40 - 140	20	
Bis(2-chloroethoxy)methane	ND	3.5	81	12	148.4				40 - 140	20	I,r
Bis(2-chloroethyl)ether	ND	1.0	92	84	9.1				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	119	112	6.1				40 - 140	20	
Carbazole	ND	5.0	89	10	159.6				40 - 140	20	I,r
Dibenzofuran	ND	3.5	89	83	7.0				40 - 140	20	
Diethyl phthalate	ND	3.5	98	93	5.2				40 - 140	20	
Dimethylphthalate	ND	1.5	96	90	6.5				40 - 140	20	
Di-n-butylphthalate	ND	1.5	104	98	5.9				40 - 140	20	
Di-n-octylphthalate	ND	1.5	109	103	5.7				40 - 140	20	
Hexachloroethane	ND	3.5	89	81	9.4				40 - 140	20	
Isophorone	ND	3.5	86	87	1.2				40 - 140	20	
N-Nitrosodimethylamine	ND	1.0	74	65	12.9				40 - 140	20	
N-Nitrosodi-n-propylamine	ND	3.5	92	87	5.6				40 - 140	20	
N-Nitrosodiphenylamine	ND	3.5	65	61	6.3				40 - 140	20	
Pentachloronitrobenzene	ND	5.0	96	91	5.3				40 - 140	20	
Phenol	ND	1.0	78	74	5.3				30 - 130	20	

QA/QC Data

SDG I.D.: GCO18107

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% 2,4,6-Tribromophenol	91	%	99	88	11.8				15 - 110	20
% 2-Fluorobiphenyl	83	%	83	75	10.1				30 - 130	20
% 2-Fluorophenol	56	%	71	66	7.3				15 - 110	20
% Nitrobenzene-d5	84	%	92	81	12.7				30 - 130	20
% Phenol-d5	66	%	72	59	19.8				15 - 110	20
% Terphenyl-d14	76	%	86	78	9.8				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 681180 (ug/L), QC Sample No: CO17751 (CO18107, CO18108, CO18109, CO18110, CO18111)

Semivolatiles (SIM) - Ground Water

2-Methylnaphthalene	ND	0.50	67	80	17.7				30 - 130	20
Acenaphthene	ND	0.50	85	87	2.3				30 - 130	20
Acenaphthylene	ND	0.50	74	28	90.2				30 - 130	20
Anthracene	ND	0.50	83	82	1.2				30 - 130	20
Benz(a)anthracene	ND	0.50	93	105	12.1				30 - 130	20
Benzo(a)pyrene	ND	0.50	91	79	14.1				30 - 130	20
Benzo(b)fluoranthene	ND	0.50	86	91	5.6				30 - 130	20
Benzo(ghi)perylene	ND	0.50	84	84	0.0				30 - 130	20
Benzo(k)fluoranthene	ND	0.50	86	90	4.5				30 - 130	20
Chrysene	ND	0.50	81	89	9.4				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50	88	94	6.6				30 - 130	20
Fluoranthene	ND	0.50	90	95	5.4				30 - 130	20
Fluorene	ND	0.50	83	89	7.0				30 - 130	20
Hexachlorobenzene	ND	0.50	69	75	8.3				30 - 130	20
Hexachlorobutadiene	ND	0.50	75	85	12.5				30 - 130	20
Hexachlorocyclopentadiene	ND	0.50	36	43	17.7				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50	88	90	2.2				30 - 130	20
Naphthalene	ND	0.50	71	84	16.8				30 - 130	20
Nitrobenzene	ND	0.50	83	95	13.5				30 - 130	20
Pentachlorophenol	ND	0.50	82	91	10.4				30 - 130	20
Phenanthrene	ND	0.50	90	97	7.5				30 - 130	20
Pyrene	ND	0.50	90	86	4.5				30 - 130	20
Pyridine	ND	0.50	26	31	17.5				30 - 130	20
% 2,4,6-Tribromophenol	96	%	105	110	4.7				15 - 110	20
% 2-Fluorobiphenyl	72	%	69	68	1.5				30 - 130	20
% 2-Fluorophenol	64	%	60	58	3.4				15 - 110	20
% Nitrobenzene-d5	89	%	85	93	9.0				30 - 130	20
% Phenol-d5	83	%	72	73	1.4				15 - 110	20
% Terphenyl-d14	83	%	89	92	3.3				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 681026 (ug/L), QC Sample No: CO18112 (CO18112, CO18113)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	81	66	20.4				30 - 130	20
Acenaphthene	ND	0.50	82	78	5.0				30 - 130	20
Acenaphthylene	ND	0.10	79	83	4.9				30 - 130	20
Anthracene	ND	0.10	93	89	4.4				30 - 130	20
Benz(a)anthracene	ND	0.02	100	101	1.0				30 - 130	20
Benzo(a)pyrene	ND	0.02	115	108	6.3				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	101	90	11.5				30 - 130	20

QA/QC Data

SDG I.D.: GCO18107

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Benzo(ghi)perylene	ND	0.02	84	74	12.7				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	104	91	13.3				30 - 130	20
Chrysene	ND	0.02	91	87	4.5				30 - 130	20
Dibenz(a,h)anthracene	ND	0.02	109	93	15.8				30 - 130	20
Fluoranthene	ND	0.50	91	87	4.5				30 - 130	20
Fluorene	ND	0.10	87	84	3.5				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	109	98	10.6				30 - 130	20
Naphthalene	ND	0.50	82	64	24.7				30 - 130	20
Phenanthrene	ND	0.06	78	76	2.6				30 - 130	20
Pyrene	ND	0.07	88	86	2.3				30 - 130	20
% 2-Fluorobiphenyl	84	%	82	77	6.3				30 - 130	20
% Nitrobenzene-d5	105	%	106	102	3.8				30 - 130	20
% Terphenyl-d14	106	%	87	83	4.7				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 680759 (ug/L), QC Sample No: CO18108 (CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113, CO18114)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	110	108	1.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	93	96	3.2				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	93	97	4.2				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	86	88	2.3				70 - 130	30
1,1-Dichloroethane	ND	1.0	93	94	1.1				70 - 130	30
1,1-Dichloroethene	ND	1.0	94	96	2.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	94	94	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	84	89	5.8				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	93	97	4.2				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	86	92	6.7				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	105	108	2.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	82	88	7.1				70 - 130	30
1,2-Dibromoethane	ND	1.0	99	101	2.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	99	103	4.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	90	93	3.3				70 - 130	30
1,2-Dichloropropane	ND	1.0	80	79	1.3				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	104	111	6.5				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	105	109	3.7				70 - 130	30
1,3-Dichloropropane	ND	1.0	103	103	0.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	102	106	3.8				70 - 130	30
2,2-Dichloropropane	ND	1.0	100	102	2.0				70 - 130	30
2-Chlorotoluene	ND	1.0	103	108	4.7				70 - 130	30
2-Hexanone	ND	5.0	71	71	0.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	103	108	4.7				70 - 130	30
4-Chlorotoluene	ND	1.0	105	111	5.6				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	65	65	0.0				70 - 130	30
Acetone	ND	5.0	69	71	2.9				70 - 130	30
Acrylonitrile	ND	5.0	81	80	1.2				70 - 130	30
Benzene	ND	0.70	95	98	3.1				70 - 130	30
Bromobenzene	ND	1.0	104	108	3.8				70 - 130	30
Bromochloromethane	ND	1.0	95	98	3.1				70 - 130	30
Bromodichloromethane	ND	0.50	83	84	1.2				70 - 130	30
Bromoform	ND	1.0	96	98	2.1				70 - 130	30

QA/QC Data

SDG I.D.: GCO18107

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Bromomethane	ND	1.0	114	122	6.8				70 - 130	30
Carbon Disulfide	ND	1.0	88	90	2.2				70 - 130	30
Carbon tetrachloride	ND	1.0	106	112	5.5				70 - 130	30
Chlorobenzene	ND	1.0	102	105	2.9				70 - 130	30
Chloroethane	ND	1.0	100	103	3.0				70 - 130	30
Chloroform	ND	1.0	93	97	4.2				70 - 130	30
Chloromethane	ND	1.0	91	92	1.1				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	98	101	3.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	81	85	4.8				70 - 130	30
Dibromochloromethane	ND	0.50	103	103	0.0				70 - 130	30
Dibromomethane	ND	1.0	81	83	2.4				70 - 130	30
Dichlorodifluoromethane	ND	1.0	91	92	1.1				70 - 130	30
Ethylbenzene	ND	1.0	104	108	3.8				70 - 130	30
Hexachlorobutadiene	ND	0.40	99	109	9.6				70 - 130	30
Isopropylbenzene	ND	1.0	103	110	6.6				70 - 130	30
m&p-Xylene	ND	1.0	109	112	2.7				70 - 130	30
Methyl ethyl ketone	ND	5.0	73	71	2.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	89	91	2.2				70 - 130	30
Methylene chloride	ND	1.0	92	95	3.2				70 - 130	30
Naphthalene	ND	1.0	72	78	8.0				70 - 130	30
n-Butylbenzene	ND	1.0	107	112	4.6				70 - 130	30
n-Propylbenzene	ND	1.0	106	111	4.6				70 - 130	30
o-Xylene	ND	1.0	99	104	4.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	105	110	4.7				70 - 130	30
sec-Butylbenzene	ND	1.0	105	111	5.6				70 - 130	30
Styrene	ND	1.0	110	112	1.8				70 - 130	30
tert-Butylbenzene	ND	1.0	102	107	4.8				70 - 130	30
Tetrachloroethene	ND	1.0	89	92	3.3				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	75	73	2.7				70 - 130	30
Toluene	ND	1.0	90	92	2.2				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	94	97	3.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	88	89	1.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	96	100	4.1				70 - 130	30
Trichloroethene	ND	1.0	95	97	2.1				70 - 130	30
Trichlorofluoromethane	ND	1.0	93	97	4.2				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	89	89	0.0				70 - 130	30
Vinyl chloride	ND	1.0	94	98	4.2				70 - 130	30
% 1,2-dichlorobenzene-d4	112	%	98	99	1.0				70 - 130	30
% Bromofluorobenzene	83	%	96	98	2.1				70 - 130	30
% Dibromofluoromethane	103	%	102	100	2.0				70 - 130	30
% Toluene-d8	80	%	87	87	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GCO18107

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference



Phyllis Shiller, Laboratory Director
June 16, 2023

Friday, June 16, 2023

Criteria: CT: GWP, SWP

State: CT

Sample Criteria Exceedances Report

GCO18107 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO18107	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO18107	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO18108	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO18108	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO18109	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO18109	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO18110	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO18110	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO18110	\$8270-CTSIRM	Benz(a)anthracene	CT / RSR GWPC (ug/l) / Semivolatiles	0.07	0.05	0.06	0.06	ug/L
CO18110	\$PFAS-WMCT	Total PFAS (5)	CT / RSR GWPC (ug/l) / APS Organics	801.2	1.92	70	70	ng/L
CO18111	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO18111	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO18111	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.005	0.004	0.004	0.004	mg/L
CO18112	\$8100CTSIRM	Benz(a)anthracene	CT / RSR GWPC (ug/l) / Semivolatiles	0.09	0.05	0.06	0.06	ug/L
CO18112	\$8100CTSIRM	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	0.39	0.30	0.3	0.3	ug/L
CO18112	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO18112	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO18113	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO18113	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO18113	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.010	0.004	0.004	0.004	mg/L
CO18114	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO18114	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO18107-CO18117

Sampling Date(s): 6/1/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>VPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: PCB Narration, SVOA Narration, SVOASIM Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Friday, June 16, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 16, 2023

SDG I.D.: GCO18107

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:

Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

522 - DIOXANE

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM34 06/08/23-1 Adam Werner, Chemist 06/08/23

CO18109 (1X)

Initial Calibration Evaluation (CHEM34/DIOX_1017):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM34/0608_04-DIOX_1017):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 681109 (CO17835)

CO18109

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL2 06/07/23-1 Jeff Bucko, Chemist 06/07/23

CO18107 (1X), CO18108 (1X), CO18109 (1X), CO18110 (1X), CO18111 (1X), CO18112 (1X), CO18113 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (607A005_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

QC (Batch Specific):



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RCP Certification Report

June 16, 2023

SDG I.D.: GCO18107

ETPH Narration

Batch 681253 (CO18108)

CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/05/23 19:43 Alexander Latka, Chemist 06/05/23

CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Site Specific):

Batch 680469 (CO18113)

CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

* UNABLE TO GET PH BELOW 7

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 06/05/23 09:12 Tina Hall, Chemist 06/05/23

CO18112, CO18113

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.



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Certification Report

June 16, 2023

SDG I.D.: GCO18107

ICP Metals Narration

ARCOS-2 06/06/23 10:11 Ian Enders, Chemist 06/06/23

CO18107, CO18108, CO18109, CO18110, CO18111

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 680418 (CO17158)

CO18107, CO18108, CO18109, CO18110, CO18111

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 680779 (CO18488)

CO18112, CO18113

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ICPMS 06/06/23 21:24 Mike Hornak, Chemist 06/06/23

CO18107, CO18108, CO18109, CO18110, CO18111

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following samples did not meet internal standard criteria: None.

QC (Batch Specific):

Batch 680419 (CO17157)

CO18107, CO18108, CO18109, CO18110, CO18111

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration



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RCP Certification Report

June 16, 2023

SDG I.D.: GCO18107

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 680403 (Samples: CO18107, CO18108, CO18109, CO18110, CO18111): -----

The LCS/LCSD RPD exceeds the method criteria for one surrogate. No significant variability is suspected. (% DCBP (Surrogate Rec), % DCBP (Surrogate Rec) (Confirmation))

Instrument:

AU-ECD1 06/02/23-1 Saadia Chudary, Chemist 06/02/23

CO18107 (1X), CO18108 (1X), CO18109 (1X), CO18110 (1X), CO18111 (1X)

The initial calibration (PC0523AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0523BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO18107, CO18108, CO18109, CO18110, CO18111

Preceding CC 602B050 - None.

Succeeding CC 602B063 - PCB 1260 22%H (%)

QC (Batch Specific):

Batch 680403 (CO17712)

CO18107, CO18108, CO18109, CO18110, CO18111

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: % DCBP (Surrogate Rec)(35.6%), % DCBP (Surrogate Rec) (Confirmation)(38.3%)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 681180 (Samples: CO18107, CO18108, CO18109, CO18110, CO18111): -----

The LCS/LCSD recovery for one or more analytes is below the method criteria. A low bias for these analytes is possible. (3,3"-Dichlorobenzidine, Aniline, Benzidine)

The LCSD recovery is below the method criteria. A low bias is possible. (Bis(2-chloroethoxy)methane, Carbazole)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Aniline, Bis(2-chloroethoxy)methane, Carbazole)

Instrument:

CHEM19 06/09/23-2 Matt Richard, Chemist 06/09/23

CO18107 (1X), CO18108 (1X), CO18109 (1X), CO18110 (1X), CO18111 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_SPLIT_0604):



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RCP Certification Report

June 16, 2023

SDG I.D.: GCO18107

SVOA Narration

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.089 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0609_23-19_SPLIT_0604):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: Bis(2-ethylhexyl)phthalate 32%H (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.095 (0.1)

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 681180 (CO17751)

CO18107, CO18108, CO18109, CO18110, CO18111

All LCS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), Aniline(13%), Benzidine(<10%)

All LCSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), Aniline(17%), Benzidine(<10%), Bis(2-chloroethoxy)methane(12%), Carbazole(10%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: Aniline(26.7%), Bis(2-chloroethoxy)methane(148.4%), Carbazole(159.6%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 681026 (Samples: CO18112, CO18113): -----

The LCS/LCSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample(s) so no significant variability is suspected. (Naphthalene)

QC Batch 681180 (Samples: CO18107, CO18108, CO18109, CO18110, CO18111): -----

The LCS or the LCSD recovery is below the method criteria. A low bias is possible. (Acenaphthylene, Pyridine)

The LCS/LCSD RPD exceeds the method criteria for one analyte, but this analyte was not reported in the sample(s) so no significant variability is suspected. (Acenaphthylene)

Instrument:

CHEM27 06/09/23-2

Keith Aloisa, Chemist 06/09/23

CO18107 (1X), CO18108 (1X), CO18109 (1X), CO18110 (1X), CO18111 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_SIM18_0425):

100% of target compounds met criteria.



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RCP Certification Report

June 16, 2023

SDG I.D.: GCO18107

SVOASIM Narration

The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0609_14-27_SIM18_0425):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM33 06/07/23-1 Keith Aloisa, Chemist 06/07/23

CO18112 (1X, 1000X), CO18113 (1X)

Initial Calibration Evaluation (CHEM33/33_PAHSIM_0514):

100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM33/0607_03-33_PAHSIM_0514):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 681026 (CO18112)

CO18112, CO18113

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: Naphthalene(24.7%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 681180 (CO17751)

CO18107, CO18108, CO18109, CO18110, CO18111

All LCS recoveries were within 30 - 130 with the following exceptions: Pyridine(26%)
All LCSD recoveries were within 30 - 130 with the following exceptions: Acenaphthylene(28%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: Acenaphthylene(90.2%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration



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RCP Certification Report

June 16, 2023

SDG I.D.: GCO18107

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 680759 (Samples: CO18107, CO18108, CO18109, CO18110, CO18111, CO18112, CO18113, CO18114): -----

The LCS/LCSD is below the lower range. No significant bias is suspected. (4-Methyl-2-pentanone)

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Acetone)

Instrument:

CHEM15 06/02/23-1

Harry Mullin, Chemist 06/02/23

CO18107 (1X), CO18108 (1X), CO18109 (1X), CO18110 (1X), CO18111 (1X), CO18112 (1X), CO18113 (1X), CO18114 (1X)

Initial Calibration Evaluation (CHEM15/VOA15-051623):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Naphthalene 30% (20%), trans-1,4-dichloro-2-butene 23% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: None.

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM15/0602_02-VOA15-051623):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

95% of target compounds met criteria.

The following compounds did not meet % deviation criteria: 2-Hexanone 34%L (30%), 4-Methyl-2-pentanone 36%L (30%), Acetone 32%L (30%), Naphthalene 37%L (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

QC (Batch Specific):

Batch 680759 (CO18108)

CHEM15 6/2/2023-1

CO18107(1X), CO18108(1X), CO18109(1X), CO18110(1X), CO18111(1X), CO18112(1X), CO18113(1X), CO18114(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: 4-Methyl-2-pentanone(65%), Acetone(69%)

All LCSD recoveries were within 70 - 130 with the following exceptions: 4-Methyl-2-pentanone(65%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 5.6C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Cooler: Yes No
 IPK ICE
 Temp: 5.6°C Pg 1 of 1

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: _____
 On File

Customer: Tighe & Bond
 Address: 213 Court Street, Suite 1100
 Middletown, CT 06457

Project: Brainard Airport
 Report to: James Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe & Bond Westfield
 Quote #: DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: *Zan Adams* Date: 6/1/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
18107	TMW-3	GW	6/1/23	1535
18108	TMW-6	GW	6/1/23	1420
18109	TMW-15	GW	6/1/23	1120
18110	TMW-18	GW	6/1/23	0830
18111	TMW-19	GW	6/1/23	0945
18112	TMW-23	GW	6/1/23	1305
18113	TMW-25	GW	6/1/23	1645
18114	Trip Blank	GW	6/1/23	
18115	DUP-1	GW	6/1/23	1421
18116	Field Blank	GW	6/1/23	1655
18117	Equipment Blank	GW	6/1/23	1705

CT/ETPH	VOCs 8260	1,4-Dioxane 8260	SVOCs 8270	PAHs 8270	RCRA 8 Metals	RSR 15 Metals	Lead	PCBs 8092	Pesticides 8081	PFAS 537M CT List	GL Amber 1000ml (X) As is	40 ml VOA Vial (X) HCl	PL HNO ₃ 250ml	125 ml Polypropylene (PP)
X	X	X	X	X	X	X	X	X	X	X	4	3	1	2
X	X	X	X	X	X	X	X	X	X	X	4	3	1	2
X	X	X	X	X	X	X	X	X	X	X	4	3	1	2
X	X	X	X	X	X	X	X	X	X	X	4	3	1	2
X	X	X	X	X	X	X	X	X	X	X	4	3	1	2
X	X	X	X	X	X	X	X	X	X	X	3	3	1	2
X	X	X	X	X	X	X	X	X	X	X	3	3	1	2
X	X	X	X	X	X	X	X	X	X	X	2			
X	X	X	X	X	X	X	X	X	X	X			2	
X	X	X	X	X	X	X	X	X	X	X			1	
X	X	X	X	X	X	X	X	X	X	X			2	

Relinquished by: *Zan Adams*
 Accepted by: *[Signature]*
 Date: 6/1/23 Time: 17:55

RI
 RES DEC
 I/C DEC
 GA Leachability
 GB Leachability
 GA -GW Objectives
 GB -GW Objectives
 Other

CT
 RCP Cert
 GWPC
 SWPC
 GA PMC
 GB PMC
 SWPC
 RES DEC
 I/C DEC

MA
 MCP Certification
 GW-1 RCS-1 / RCGW-1
 GW-2 RCS-2 / RCGW-2
 GW-3
 S-1
 S-2
 S-3
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQUIS
 EnviroData

Data Package
 Tier II Checklist*
 Full Data Package*
 Phoenix Std
 Other

Comments, Special Requirements or Regulations:
 Turnaround Time:
 1 Day* Standard
 2 Days* Other
 3 Days*
 4 Days*
 5 Days*

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.
 * SURCHARGES MAY APPLY

State where samples were collected: **CT**
 * SURCHARGE APPLIES



Technical Report

prepared for:

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Report Date: 06/14/2023
Client Project ID: CO18107-CO18117
York Project (SDG) No.: 23F0190

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 06/14/2023
Client Project ID: CO18107-CO18117
York Project (SDG) No.: 23F0190

Phoenix Environmental Laboratories, Inc.
P.O. Box 370, 587 East Middle Turnpike
Manchester CT, 06040
Attention: Helen Geoghegan

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 05, 2023 and listed below. The project was identified as your project: **CO18107-CO18117**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
23F0190-01	CO18107	Ground Water	06/01/2023	06/05/2023
23F0190-02	CO18108	Ground Water	06/01/2023	06/05/2023
23F0190-03	CO18109	Ground Water	06/01/2023	06/05/2023
23F0190-04	CO18110	Ground Water	06/01/2023	06/05/2023
23F0190-05	CO18111	Ground Water	06/01/2023	06/05/2023
23F0190-06	CO18112	Ground Water	06/01/2023	06/05/2023
23F0190-07	CO18113	Ground Water	06/01/2023	06/05/2023
23F0190-08	CO18115	Ground Water	06/01/2023	06/05/2023
23F0190-09	CO18116	Ground Water	06/01/2023	06/05/2023
23F0190-10	CO18117	Ground Water	06/01/2023	06/05/2023

General Notes for York Project (SDG) No.: 23F0190

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

Approved By: 

Cassie L. Mosher
Laboratory Manager

Date: 06/14/2023





Sample Information

Client Sample ID: CO18107

York Sample ID: 23F0190-01

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 3:35 pm	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:20	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.19		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:20	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:20	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:20	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:20	WEL
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		118 %	25-150							
Surrogate: M3PFHxS		156 %	PFSu-H	25-150						
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		154 %	PFSu-H	25-150						
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		157 %	PFSu-H	25-150						
Surrogate: M9PFNA		159 %	PFSu-H	25-150						

Sample Information

Client Sample ID: CO18108

York Sample ID: 23F0190-02

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 2:20 pm	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	7.18		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:32	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	21.5		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:32	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	9.60		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:32	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	25.9		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:32	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:32	WEL
Surrogate Recoveries		Result	Acceptance Range							



Sample Information

Client Sample ID: CO18108

York Sample ID: 23F0190-02

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 2:20 pm	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M4PFHpA	105 %			25-150					
	Surrogate: M3PFHxS	140 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	159 %	PFSu-H		25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	156 %	PFSu-H		25-150					
	Surrogate: M9PFNA	159 %	PFSu-H		25-150					

Sample Information

Client Sample ID: CO18109

York Sample ID: 23F0190-03

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 11:20 am	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.46		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:45	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:45	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	2.01		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:45	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:45	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:45	WEL
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M4PFHpA	121 %		25-150						
	Surrogate: M3PFHxS	151 %	PFSu-H	25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	158 %	PFSu-H	25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	152 %	PFSu-H	25-150						
	Surrogate: M9PFNA	145 %		25-150						



Sample Information

Client Sample ID: CO18110

York Sample ID: 23F0190-04

York Project (SDG) No.
23F0190

Client Project ID
CO18107-CO18117

Matrix
Ground Water

Collection Date/Time
June 1, 2023 8:30 am

Date Received
06/05/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	37.1		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:57	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	172		ng/L	19.2	10	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:58	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	84.8		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:57	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	501		ng/L	19.2	10	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:58	WEL
375-95-1	Perfluorononanoic acid (PFNA)	6.27		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 14:57	WEL
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		66.2 %	25-150							
Surrogate: M3PFHxS		201 %	PFSu-H	25-150						
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		178 %	PFSu-H	25-150						
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		202 %	PFSu-H	25-150						
Surrogate: M9PFNA		190 %	PFSu-H	25-150						

Sample Information

Client Sample ID: CO18111

York Sample ID: 23F0190-05

York Project (SDG) No.
23F0190

Client Project ID
CO18107-CO18117

Matrix
Ground Water

Collection Date/Time
June 1, 2023 9:45 am

Date Received
06/05/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:09	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:09	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:09	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:09	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:09	WEL
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		130 %	25-150							
Surrogate: M3PFHxS		161 %	PFSu-H	25-150						

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STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@



Sample Information

Client Sample ID: CO18111

York Sample ID: 23F0190-05

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 9:45 am	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	171 %	PFSu-H		25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	166 %	PFSu-H		25-150					
	Surrogate: M9PFNA	166 %	PFSu-H		25-150					

Sample Information

Client Sample ID: CO18112

York Sample ID: 23F0190-06

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 1:05 pm	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.99		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:22	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:22	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	2.52		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:22	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.47		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:22	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	1.85	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:22	WEL
Surrogate Recoveries		Result	Acceptance Range							
	Surrogate: M4PFHpA	135 %		25-150						
	Surrogate: M3PFHxS	164 %	PFSu-H	25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	175 %	PFSu-H	25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	178 %	PFSu-H	25-150						
	Surrogate: M9PFNA	179 %	PFSu-H	25-150						

Sample Information

Client Sample ID: CO18113

York Sample ID: 23F0190-07

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 4:45 pm	<u>Date Received</u> 06/05/2023
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Sample Information

Client Sample ID: CO18113

York Sample ID: 23F0190-07

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 4:45 pm	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	15.0		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:34	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:34	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	11.1		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:34	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.09		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:34	WEL
375-95-1	Perfluorononanoic acid (PFNA)	6.85		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 15:34	WEL
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		130 %	25-150							
Surrogate: M3PFHxS		165 %	PFSu-H	25-150						
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		184 %	PFSu-H	25-150						
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		175 %	PFSu-H	25-150						
Surrogate: M9PFNA		183 %	PFSu-H	25-150						

Sample Information

Client Sample ID: CO18115

York Sample ID: 23F0190-08

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 2:21 pm	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	6.86		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:11	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	21.0		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:11	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	7.75		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:11	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	25.4		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:11	WEL
375-95-1	Perfluorononanoic acid (PFNA)	1.93		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:11	WEL
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		99.9 %	25-150							



Sample Information

Client Sample ID: CO18115

York Sample ID: 23F0190-08

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 2:21 pm	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Surrogate: M3PFHxS	137 %			25-150					
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	159 %	PFSu-H		25-150					
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	144 %			25-150					
	Surrogate: M9PFNA	151 %	PFSu-H		25-150					

Sample Information

Client Sample ID: CO18116

York Sample ID: 23F0190-09

<u>York Project (SDG) No.</u> 23F0190	<u>Client Project ID</u> CO18107-CO18117	<u>Matrix</u> Ground Water	<u>Collection Date/Time</u> June 1, 2023 4:55 pm	<u>Date Received</u> 06/05/2023
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PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:23	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:23	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:23	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:23	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:23	WEL
	Surrogate Recoveries	Result		Acceptance Range						
	Surrogate: M4PFHpA	117 %		25-150						
	Surrogate: M3PFHxS	140 %		25-150						
	Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)	148 %		25-150						
	Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)	147 %		25-150						
	Surrogate: M9PFNA	154 %	PFSu-H	25-150						



Sample Information

Client Sample ID: CO18117

York Sample ID: 23F0190-10

York Project (SDG) No.
23F0190

Client Project ID
CO18107-CO18117

Matrix
Ground Water

Collection Date/Time
June 1, 2023 5:05 pm

Date Received
06/05/2023

PFAS, CTDEEP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: SPE Ext-PFAS-EPA 537.1M

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:35	WEL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:35	WEL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:35	WEL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:35	WEL
375-95-1	Perfluorononanoic acid (PFNA)	ND		ng/L	1.92	1	EPA 537m Certifications:	06/08/2023 11:08	06/13/2023 16:35	WEL
Surrogate Recoveries		Result	Acceptance Range							
Surrogate: M4PFHpA		97.9 %	25-150							
Surrogate: M3PFHxS		126 %	25-150							
Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)		123 %	25-150							
Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)		130 %	25-150							
Surrogate: M9PFNA		126 %	25-150							



Analytical Batch Summary

Batch ID: BF30509

Preparation Method: SPE Ext-PFAS-EPA 537.1M

Prepared By: ER

YORK Sample ID	Client Sample ID	Preparation Date
23F0190-01	CO18107	06/08/23
23F0190-02	CO18108	06/08/23
23F0190-03	CO18109	06/08/23
23F0190-04	CO18110	06/08/23
23F0190-04RE1	CO18110	06/08/23
23F0190-05	CO18111	06/08/23
23F0190-06	CO18112	06/08/23
23F0190-07	CO18113	06/08/23
23F0190-08	CO18115	06/08/23
23F0190-09	CO18116	06/08/23
23F0190-10	CO18117	06/08/23
BF30509-BLK1	Blank	06/08/23
BF30509-BS1	LCS	06/08/23
BF30509-BSD1	LCS Dup	06/08/23



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30509 - SPE Ext-PFAS-EPA 537.1M

Blank (BF30509-BLK1)

Prepared: 06/08/2023 Analyzed: 06/13/2023

Perfluoroheptanoic acid (PFHpA)	ND	2.00	ng/L								
Perfluorohexanesulfonic acid (PFHxS)	ND	2.00	"								
Perfluorooctanoic acid (PFOA)	ND	2.00	"								
Perfluorooctanesulfonic acid (PFOS)	ND	2.00	"								
Perfluorononanoic acid (PFNA)	ND	2.00	"								
<i>Surrogate: M4PFHpA</i>	59.7		"	53.4		112	25-150				
<i>Surrogate: M3PFHxS</i>	64.9		"	50.5		128	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	79.8		"	53.4		150	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	69.4		"	51.0		136	25-150				
<i>Surrogate: M9PFNA</i>	78.9		"	53.4		148	25-150				

LCS (BF30509-BS1)

Prepared: 06/08/2023 Analyzed: 06/13/2023

Perfluoroheptanoic acid (PFHpA)	76.5	2.00	ng/L	80.0		95.6	50-130				
Perfluorohexanesulfonic acid (PFHxS)	57.8	2.00	"	72.8		79.4	50-130				
Perfluorooctanoic acid (PFOA)	60.0	2.00	"	80.0		75.0	50-130				
Perfluorooctanesulfonic acid (PFOS)	67.7	2.00	"	74.0		91.4	50-130				
Perfluorononanoic acid (PFNA)	64.4	2.00	"	80.0		80.6	50-130				
<i>Surrogate: M4PFHpA</i>	56.2		"	53.4		105	25-150				
<i>Surrogate: M3PFHxS</i>	63.0		"	50.5		125	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	73.5		"	53.4		138	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	65.8		"	51.0		129	25-150				
<i>Surrogate: M9PFNA</i>	75.1		"	53.4		141	25-150				

LCS Dup (BF30509-BSD1)

Prepared: 06/08/2023 Analyzed: 06/13/2023

Perfluoroheptanoic acid (PFHpA)	84.4	2.00	ng/L	80.0		105	50-130		9.87	30	
Perfluorohexanesulfonic acid (PFHxS)	59.3	2.00	"	72.8		81.5	50-130		2.57	30	
Perfluorooctanoic acid (PFOA)	63.0	2.00	"	80.0		78.7	50-130		4.83	30	
Perfluorooctanesulfonic acid (PFOS)	72.3	2.00	"	74.0		97.6	50-130		6.56	30	
Perfluorononanoic acid (PFNA)	65.5	2.00	"	80.0		81.9	50-130		1.60	30	
<i>Surrogate: M4PFHpA</i>	59.2		"	53.4		111	25-150				
<i>Surrogate: M3PFHxS</i>	69.2		"	50.5		137	25-150				
<i>Surrogate: Perfluoro-n-[13C8]octanoic acid (M8PFOA)</i>	78.1		"	53.4		146	25-150				
<i>Surrogate: Perfluoro-1-[13C8]octanesulfonic acid (M8PFOS)</i>	68.4		"	51.0		134	25-150				
<i>Surrogate: M9PFNA</i>	77.9		"	53.4		146	25-150				





Sample and Data Qualifiers Relating to This Work Order

PFSu-H The isotopically labeled surrogate recovered above lab control limits due to a matrix effect. Isotope Dilution was applied.

Definitions and Other Explanations

- * Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
- ND NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- LOQ LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
- LOD LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
- MDL METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
- Reported to This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



Wednesday, June 21, 2023

Attn: Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO19489
Sample ID#s: CO19489 - CO19494

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

June 21, 2023

SDG I.D.: GCO19489

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.

Volatile 8260 analysis:

1,4-Dioxane does not meet the GWP. This compound is analyzed by method 522 or 8270SIM to achieve this criteria.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 21, 2023

SDG I.D.: GCO19489

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
TMW-13	CO19489	GROUND WATER
TMW-14	CO19490	GROUND WATER
TMW-17	CO19491	GROUND WATER
TMW-20	CO19492	GROUND WATER
TMW-24	CO19493	GROUND WATER
TRIP BLANK	CO19494	GROUND WATER



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

06/05/23
06/05/23

Time

10:45
16:32

Laboratory Data

SDG ID: GCO19489
Phoenix ID: CO19489

Project ID: BRAINARD AIRPORT
Client ID: TMW-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	TH	SW6010D
Barium	0.029	0.002	mg/L	1	06/09/23	TH	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Lead	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	TH	SW6010D
Extraction of ETPH	Completed				06/09/23	X/Y/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/06/23	ZT/AL	SW7470A
Semi-Volatile Extraction	Completed				06/09/23	X/Y/D	SW3520C
Total Metals Digestion	Completed				06/06/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	141		%	1	06/12/23	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/07/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/07/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C

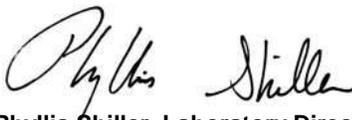
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
p-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/07/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	06/07/23	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	06/07/23	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	06/07/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/07/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/l	1	06/07/23	MH	SW8260C
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	06/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	84		%	1	06/11/23	KCA	30 - 130 %
% Terphenyl-d14	85		%	1	06/11/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 21, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

06/05/23
 06/05/23

Time

11:50
 16:32

Laboratory Data

SDG ID: GCO19489
 Phoenix ID: CO19490

Project ID: BRAINARD AIRPORT
 Client ID: TMW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	TH	SW6010D
Barium	0.025	0.002	mg/L	1	06/09/23	TH	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Lead	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	TH	SW6010D
Extraction of ETPH	Completed				06/09/23	X/Y/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/06/23	ZT/AL	SW7470A
Semi-Volatile Extraction	Completed				06/09/23	X/Y/D	SW3520C
Total Metals Digestion	Completed				06/06/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	75		%	1	06/12/23	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/07/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/07/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C

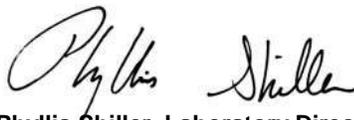
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
p-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/07/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	06/07/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/07/23	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	06/07/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/07/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/l	1	06/07/23	MH	SW8260C
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Phenanthrene	0.09	0.06	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/11/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	77		%	1	06/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	88		%	1	06/11/23	KCA	30 - 130 %
% Terphenyl-d14	85		%	1	06/11/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 21, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

06/05/23
 06/05/23

Time

13:05
 16:32

Laboratory Data

SDG ID: GCO19489
 Phoenix ID: CO19491

Project ID: BRAINARD AIRPORT
 Client ID: TMW-17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	TH	SW6010D
Barium	0.016	0.002	mg/L	1	06/09/23	TH	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Lead	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	TH	SW6010D
Extraction of ETPH	Completed				06/09/23	x/y/d	SW3510C/SW3520C
Mercury Digestion	Completed				06/06/23	ZT/AL	SW7470A
Semi-Volatile Extraction	Completed				06/09/23	X/Y/D	SW3520C
Total Metals Digestion	Completed				06/06/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	06/20/23	JRB	CTETPH
Identification	ND		mg/L	1	06/20/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	NR		%	1	06/20/23	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/07/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/07/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
p-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/07/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	06/07/23	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	06/07/23	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	06/07/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/07/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/l	1	06/07/23	MH	SW8260C
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Anthracene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Chrysene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Fluorene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Pyrene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	06/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	88		%	1	06/11/23	KCA	30 - 130 %
% Terphenyl-d14	85		%	1	06/11/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:

NR = Not reported. ETPH-WM analyzed from SIM extract. No surrogates to report.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 21, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2023

FOR: Attn:Mark Paulsson
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: SR1
 Analyzed by: see "By" below

Date

06/05/23
 06/05/23

Time

14:10
 16:32

Laboratory Data

SDG ID: GCO19489
 Phoenix ID: CO19492

Project ID: BRAINARD AIRPORT
 Client ID: TMW-20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	TH	SW6010D
Barium	0.028	0.002	mg/L	1	06/09/23	TH	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/09/23	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Nickel	0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/09/23	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	TH	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/07/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/09/23	TH	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/09/23	TH	SW6010D
Extraction of ETPH	Completed				06/09/23	X/Y/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/06/23	ZT/AL	SW7470A
PCB Extraction	Completed				06/07/23	I/I	SW3510C
Semi-Volatile Extraction	Completed				06/09/23	X/Y/D/MQ	SW3520C
Total Metals Digestion	Completed				06/06/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/06/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	79		%	1	06/12/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	1	06/08/23	SC	30 - 150 %
% DCBP (Confirmation)	75		%	1	06/08/23	SC	30 - 150 %
% TCMX	66		%	1	06/08/23	SC	30 - 150 %
% TCMX (Confirmation)	64		%	1	06/08/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	97		%	1	06/06/23	MH	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/12/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/12/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/12/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/12/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	06/12/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
Acetophenone	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Aniline	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Benzidine	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Benzoic acid	ND	47	ug/L	1	06/12/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
Carbazole	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Dibenzofuran	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Hexachloroethane	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
Isophorone	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	06/12/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/12/23	KCA	SW8270D
Phenol	ND	0.94	ug/L	1	06/12/23	KCA	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	06/12/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	74		%	1	06/12/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	57		%	1	06/12/23	KCA	15 - 110 %
% Nitrobenzene-d5	76		%	1	06/12/23	KCA	30 - 130 %
% Phenol-d5	66		%	1	06/12/23	KCA	15 - 110 %
% Terphenyl-d14	81		%	1	06/12/23	KCA	30 - 130 %

Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	06/12/23	KCA	SW8270D (SIM)

QA/QC Surrogates

% 2,4,6-Tribromophenol	96		%	1	06/12/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	06/12/23	KCA	30 - 130 %
% 2-Fluorophenol	63		%	1	06/12/23	KCA	15 - 110 %
% Nitrobenzene-d5	86		%	1	06/12/23	KCA	30 - 130 %
% Phenol-d5	86		%	1	06/12/23	KCA	15 - 110 %
% Terphenyl-d14	93		%	1	06/12/23	KCA	30 - 130 %

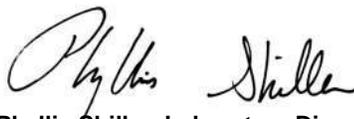
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 21, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

06/05/23
06/05/23

Time

9:45
16:32

Laboratory Data

SDG ID: GCO19489
Phoenix ID: CO19493

Project ID: BRAINARD AIRPORT
Client ID: TMW-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	TH	SW6010D
Barium	0.109	0.002	mg/L	1	06/09/23	TH	SW6010D
Cadmium	0.002	0.001	mg/L	1	06/09/23	TH	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Lead	0.002	0.001	mg/L	1	06/09/23	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	TH	SW6010D
Extraction of ETPH	Completed				06/09/23	X/Y/D	SW3510C/SW3520C
Mercury Digestion	Completed				06/06/23	ZT/AL	SW7470A
Semi-Volatile Extraction	Completed				06/09/23	X/Y/D	SW3520C
Total Metals Digestion	Completed				06/06/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	75		%	1	06/12/23	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C

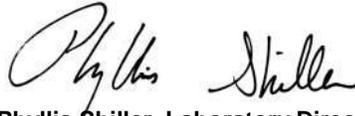
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	97		%	1	06/06/23	MH	70 - 130 %
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Anthracene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Chrysene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Fluorene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/11/23	KCA	SW8270D (SIM)
Pyrene	ND	0.48	ug/L	1	06/11/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	06/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	84		%	1	06/11/23	KCA	30 - 130 %
% Terphenyl-d14	87		%	1	06/11/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 21, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 21, 2023

FOR: Attn:Mark Paulsson
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: SR1
Analyzed by: see "By" below

Date

06/05/23
06/05/23

Time

16:32

Laboratory Data

SDG ID: GCO19489
Phoenix ID: CO19494

Project ID: BRAINARD AIRPORT
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/05/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/05/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/05/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/05/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/05/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/05/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/05/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/05/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/05/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/05/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/05/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/05/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/05/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/05/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/05/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/05/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/05/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/05/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/05/23	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	06/05/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/05/23	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	06/05/23	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	96		%	1	06/05/23	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 21, 2023

Reviewed and Released by: Phyllis Shiller, Laboratory Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 21, 2023

QA/QC Data

SDG I.D.: GCO19489

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 680880 (mg/L), QC Sample No: CO19355 (CO19489, CO19490, CO19491, CO19492, CO19493)

Mercury - Water	BRL	0.0002	0.0005	0.0011	NC	101			86.9			80 - 120	20
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 680997 (mg/L), QC Sample No: CO19518 (CO19489, CO19490, CO19491, CO19492, CO19493)

ICP Metals - Aqueous

Antimony	BRL	0.005	<0.005	<0.005	NC	104	105	1.0	104			80 - 120	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	102	103	1.0	102			80 - 120	20
Barium	BRL	0.002	0.008	0.008	NC	101	103	2.0	101			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	102	103	1.0	102			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	99.0	101	2.0	99.5			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	102	104	1.9	102			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	106	108	1.9	106			80 - 120	20
Lead	BRL	0.001	<0.001	<0.001	NC	101	103	2.0	101			80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	104	105	1.0	104			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	98.1	101	2.9	97.6			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	104	106	1.9	104			80 - 120	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	101	103	2.0	102			80 - 120	20
Zinc	BRL	0.004	<0.004	<0.004	NC	100	102	2.0	100			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 680973 (mg/L), QC Sample No: CO18634 5X (CO19492)

ICP MS Metals - Aqueous

Thallium	BRL	0.0005	<0.0005	<0.0005	NC	100	99.2	0.8	97.0			80 - 120	20
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 21, 2023

QA/QC Data

SDG I.D.: GCO19489

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 681620 (mg/L), QC Sample No: CO19119 (CO19489, CO19490, CO19491, CO19492, CO19493)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	111	97	13.5				60 - 120	30
% Terphenyl (surr)	89	%	88	95	7.7				50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 682750 (mg/L), QC Sample No: CO27101 (CO19491)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	97	113	15.2				60 - 120	30
% Terphenyl (surr)	81	%	81	84	3.6				50 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 681194 (ug/L), QC Sample No: CO18404 (CO19492)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.25	95	82	14.7				40 - 140	20
PCB-1221	ND	0.25							40 - 140	20
PCB-1232	ND	0.25							40 - 140	20
PCB-1242	ND	0.25							40 - 140	20
PCB-1248	ND	0.25							40 - 140	20
PCB-1254	ND	0.25							40 - 140	20
PCB-1260	ND	0.25	84	76	10.0				40 - 140	20
PCB-1262	ND	0.25							40 - 140	20
PCB-1268	ND	0.25							40 - 140	20
% DCBP (Surrogate Rec)	82	%	89	78	13.2				30 - 150	20
% DCBP (Surrogate Rec) (Confirm	79	%	87	80	8.4				30 - 150	20
% TCMX (Surrogate Rec)	74	%	70	65	7.4				30 - 150	20
% TCMX (Surrogate Rec) (Confirm	71	%	69	65	6.0				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 681615 (ug/L), QC Sample No: CO18671 (CO19492)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	87	82	5.9				40 - 140	20
1,2,4-Trichlorobenzene	ND	3.5	89	85	4.6				40 - 140	20
1,2-Dichlorobenzene	ND	1.0	87	80	8.4				40 - 140	20
1,2-Diphenylhydrazine	ND	1.6	87	79	9.6				40 - 140	20
1,3-Dichlorobenzene	ND	1.0	84	79	6.1				40 - 140	20
1,4-Dichlorobenzene	ND	1.0	85	79	7.3				40 - 140	20
2,2'-Oxybis(1-Chloropropane)	ND	1.0	85	79	7.3				40 - 140	20

QA/QC Data

SDG I.D.: GCO19489

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
2,4,5-Trichlorophenol	ND	1.0	95	95	0.0				40 - 140	20	
2,4,6-Trichlorophenol	ND	1.0	96	96	0.0				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	78	93	17.5				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	94	88	6.6				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	78	110	34.0				30 - 130	20	r
2,4-Dinitrotoluene	ND	3.5	105	105	0.0				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	110	100	9.5				40 - 140	20	
2-Chloronaphthalene	ND	3.5	93	90	3.3				40 - 140	20	
2-Chlorophenol	ND	1.0	58	86	38.9				30 - 130	20	r
2-Methylphenol (o-cresol)	ND	1.0	77	87	12.2				40 - 140	20	
2-Nitroaniline	ND	3.5	125	125	0.0				40 - 140	20	
2-Nitrophenol	ND	1.0	90	90	0.0				40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	78	93	17.5				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	76	54	33.8				40 - 140	20	r
3-Nitroaniline	ND	5.0	80	80	0.0				40 - 140	20	
4,6-Dinitro-2-methylphenol	ND	1.0	83	106	24.3				30 - 130	20	r
4-Bromophenyl phenyl ether	ND	3.5	91	93	2.2				40 - 140	20	
4-Chloro-3-methylphenol	ND	1.0	83	94	12.4				30 - 130	20	
4-Chloroaniline	ND	3.5	49	49	0.0				40 - 140	20	
4-Chlorophenyl phenyl ether	ND	1.0	94	90	4.3				40 - 140	20	
4-Nitroaniline	ND	5.0	95	89	6.5				40 - 140	20	
4-Nitrophenol	ND	1.0	95	95	0.0				30 - 130	20	
Acetophenone	ND	3.5	90	83	8.1				40 - 140	20	
Aniline	ND	3.5	84	60	33.3				40 - 140	20	r
Benzidine	ND	4.5	98	57	52.9				40 - 140	20	r
Benzoic acid	ND	10	83	83	0.0				30 - 130	20	
Benzyl butyl phthalate	ND	1.5	75	88	16.0				40 - 140	20	
Bis(2-chloroethoxy)methane	ND	3.5	94	87	7.7				40 - 140	20	
Bis(2-chloroethyl)ether	ND	1.0	85	80	6.1				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	85	87	2.3				40 - 140	20	
Carbazole	ND	5.0	98	90	8.5				40 - 140	20	
Dibenzofuran	ND	3.5	96	89	7.6				40 - 140	20	
Diethyl phthalate	ND	1.5	76	91	18.0				40 - 140	20	
Dimethylphthalate	ND	1.5	70	92	27.2				40 - 140	20	r
Di-n-butylphthalate	ND	1.5	79	92	15.2				40 - 140	20	
Di-n-octylphthalate	ND	1.5	85	92	7.9				40 - 140	20	
Hexachloroethane	ND	3.5	82	78	5.0				40 - 140	20	
Isophorone	ND	3.5	84	79	6.1				40 - 140	20	
N-Nitrosodimethylamine	ND	1.0	77	76	1.3				40 - 140	20	
N-Nitrosodi-n-propylamine	ND	3.5	89	81	9.4				40 - 140	20	
N-Nitrosodiphenylamine	ND	3.5	85	79	7.3				40 - 140	20	
Pentachloronitrobenzene	ND	5.0	83	86	3.6				40 - 140	20	
Phenol	ND	1.0	67	93	32.5				30 - 130	20	r
% 2,4,6-Tribromophenol	33	%	64	76	17.1				15 - 110	20	
% 2-Fluorobiphenyl	66	%	84	80	4.9				30 - 130	20	
% 2-Fluorophenol	32	%	72	72	0.0				15 - 110	20	
% Nitrobenzene-d5	67	%	86	76	12.3				30 - 130	20	
% Phenol-d5	30	%	77	77	0.0				15 - 110	20	
% Terphenyl-d14	73	%	68	85	22.2				30 - 130	20	r

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Data

SDG I.D.: GCO19489

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 681615 (ug/L), QC Sample No: CO18671 (CO19492)											
Semivolatiles (SIM) - Ground Water											
2-Methylnaphthalene	ND	0.50	80	76	5.1				30 - 130	20	
Acenaphthene	ND	0.50	80	96	18.2				30 - 130	20	
Acenaphthylene	ND	0.50	85	78	8.6				30 - 130	20	
Anthracene	ND	0.50	92	87	5.6				30 - 130	20	
Benz(a)anthracene	ND	0.50	67	83	21.3				30 - 130	20 r	
Benzo(a)pyrene	ND	0.50	77	96	22.0				30 - 130	20 r	
Benzo(b)fluoranthene	ND	0.50	73	89	19.8				30 - 130	20	
Benzo(ghi)perylene	ND	0.50	77	95	20.9				30 - 130	20 r	
Benzo(k)fluoranthene	ND	0.50	80	83	3.7				30 - 130	20	
Chrysene	ND	0.50	79	91	14.1				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.50	75	95	23.5				30 - 130	20 r	
Fluoranthene	ND	0.50	89	90	1.1				30 - 130	20	
Fluorene	ND	0.50	94	88	6.6				30 - 130	20	
Hexachlorobenzene	ND	0.50	67	75	11.3				30 - 130	20	
Hexachlorobutadiene	ND	0.50	86	82	4.8				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.50	26	31	17.5				30 - 130	20 l	
Indeno(1,2,3-cd)pyrene	ND	0.50	67	88	27.1				30 - 130	20 r	
Naphthalene	ND	0.50	92	86	6.7				30 - 130	20	
Nitrobenzene	ND	0.50	94	87	7.7				30 - 130	20	
Pentachlorophenol	ND	0.50	58	70	18.8				30 - 130	20	
Phenanthrene	ND	0.50	98	94	4.2				30 - 130	20	
Pyrene	ND	0.50	90	91	1.1				30 - 130	20	
Pyridine	ND	0.50	58	54	7.1				30 - 130	20	
% 2,4,6-Tribromophenol	38	%	65	93	35.4				15 - 110	20 r	
% 2-Fluorobiphenyl	60	%	82	74	10.3				30 - 130	20	
% 2-Fluorophenol	29	%	59	71	18.5				15 - 110	20	
% Nitrobenzene-d5	64	%	91	84	8.0				30 - 130	20	
% Phenol-d5	32	%	70	84	18.2				15 - 110	20	
% Terphenyl-d14	68	%	65	80	20.7				30 - 130	20 r	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 681618 (ug/L), QC Sample No: CO19489 (CO19489, CO19490, CO19491, CO19493)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	75	69	8.3				30 - 130	20
Acenaphthene	ND	0.50	81	78	3.8				30 - 130	20
Acenaphthylene	ND	0.10	83	81	2.4				30 - 130	20
Anthracene	ND	0.10	93	89	4.4				30 - 130	20
Benz(a)anthracene	ND	0.05	110	114	3.6				30 - 130	20
Benzo(a)pyrene	ND	0.20	110	106	3.7				30 - 130	20
Benzo(b)fluoranthene	ND	0.07	106	107	0.9				30 - 130	20
Benzo(ghi)perylene	ND	0.02	96	90	6.5				30 - 130	20
Benzo(k)fluoranthene	ND	0.10	116	105	10.0				30 - 130	20
Chrysene	ND	0.05	88	78	12.0				30 - 130	20
Dibenz(a,h)anthracene	ND	0.02	111	105	5.6				30 - 130	20
Fluoranthene	ND	0.50	98	96	2.1				30 - 130	20
Fluorene	ND	0.10	92	88	4.4				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.10	113	108	4.5				30 - 130	20
Naphthalene	ND	0.50	66	59	11.2				30 - 130	20
Phenanthrene	ND	0.06	90	88	2.2				30 - 130	20

QA/QC Data

SDG I.D.: GCO19489

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Pyrene	ND	0.07	102	99	3.0				30 - 130	20
% 2-Fluorobiphenyl	75	%	76	74	2.7				30 - 130	20
% Nitrobenzene-d5	73	%	89	84	5.8				30 - 130	20
% Terphenyl-d14	99	%	96	96	0.0				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 680987 (ug/L), QC Sample No: CO19494 (CO19492, CO19493, CO19494)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	109	114	4.5				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	103	107	3.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	105	108	2.8				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	103	107	3.8				70 - 130	30
1,1-Dichloroethane	ND	1.0	102	107	4.8				70 - 130	30
1,1-Dichloroethene	ND	1.0	108	113	4.5				70 - 130	30
1,1-Dichloropropene	ND	1.0	108	113	4.5				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	107	115	7.2				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	104	107	2.8				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	108	115	6.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	107	112	4.6				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	100	108	7.7				70 - 130	30
1,2-Dibromoethane	ND	1.0	107	111	3.7				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	105	111	5.6				70 - 130	30
1,2-Dichloroethane	ND	1.0	100	103	3.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	105	112	6.5				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	109	114	4.5				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	105	111	5.6				70 - 130	30
1,3-Dichloropropane	ND	1.0	110	114	3.6				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	103	108	4.7				70 - 130	30
2,2-Dichloropropane	ND	1.0	103	107	3.8				70 - 130	30
2-Chlorotoluene	ND	1.0	109	113	3.6				70 - 130	30
2-Hexanone	ND	5.0	98	109	10.6				70 - 130	30
2-Isopropyltoluene	ND	1.0	108	114	5.4				70 - 130	30
4-Chlorotoluene	ND	1.0	109	114	4.5				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	107	112	4.6				70 - 130	30
Acetone	ND	5.0	93	98	5.2				70 - 130	30
Acrylonitrile	ND	5.0	101	111	9.4				70 - 130	30
Benzene	ND	0.70	106	112	5.5				70 - 130	30
Bromobenzene	ND	1.0	106	110	3.7				70 - 130	30
Bromochloromethane	ND	1.0	103	110	6.6				70 - 130	30
Bromodichloromethane	ND	0.50	102	108	5.7				70 - 130	30
Bromoform	ND	1.0	105	112	6.5				70 - 130	30
Bromomethane	ND	1.0	121	134	10.2				70 - 130	30
Carbon Disulfide	ND	1.0	104	108	3.8				70 - 130	30
Carbon tetrachloride	ND	1.0	106	111	4.6				70 - 130	30
Chlorobenzene	ND	1.0	106	111	4.6				70 - 130	30
Chloroethane	ND	1.0	114	120	5.1				70 - 130	30
Chloroform	ND	1.0	93	98	5.2				70 - 130	30
Chloromethane	ND	1.0	115	128	10.7				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	104	110	5.6				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	105	110	4.7				70 - 130	30
Dibromochloromethane	ND	0.50	106	113	6.4				70 - 130	30

QA/QC Data

SDG I.D.: GCO19489

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Dibromomethane	ND	1.0	107	113	5.5				70 - 130	30
Dichlorodifluoromethane	ND	1.0	109	119	8.8				70 - 130	30
Ethylbenzene	ND	1.0	112	117	4.4				70 - 130	30
Hexachlorobutadiene	ND	0.40	109	114	4.5				70 - 130	30
Isopropylbenzene	ND	1.0	111	116	4.4				70 - 130	30
m&p-Xylene	ND	1.0	110	115	4.4				70 - 130	30
Methyl ethyl ketone	ND	5.0	101	109	7.6				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	103	5.0				70 - 130	30
Methylene chloride	ND	1.0	100	105	4.9				70 - 130	30
Naphthalene	ND	1.0	112	116	3.5				70 - 130	30
n-Butylbenzene	ND	1.0	112	118	5.2				70 - 130	30
n-Propylbenzene	ND	1.0	111	114	2.7				70 - 130	30
o-Xylene	ND	1.0	111	116	4.4				70 - 130	30
p-Isopropyltoluene	ND	1.0	111	116	4.4				70 - 130	30
sec-Butylbenzene	ND	1.0	113	118	4.3				70 - 130	30
Styrene	ND	1.0	112	117	4.4				70 - 130	30
tert-Butylbenzene	ND	1.0	111	116	4.4				70 - 130	30
Tetrachloroethene	ND	1.0	105	110	4.7				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	112	122	8.5				70 - 130	30
Toluene	ND	1.0	105	111	5.6				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	104	110	5.6				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	105	109	3.7				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	113	121	6.8				70 - 130	30
Trichloroethene	ND	1.0	104	108	3.8				70 - 130	30
Trichlorofluoromethane	ND	1.0	106	111	4.6				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	98	102	4.0				70 - 130	30
Vinyl chloride	ND	1.0	118	126	6.6				70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	101	100	1.0				70 - 130	30
% Bromofluorobenzene	92	%	101	101	0.0				70 - 130	30
% Dibromofluoromethane	95	%	95	98	3.1				70 - 130	30
% Toluene-d8	97	%	100	98	2.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 681159 (ug/L), QC Sample No: CO20494 (CO19489, CO19490, CO19491)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	108	110	1.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	113	112	0.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	104	106	1.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	103	105	1.9				70 - 130	30
1,1-Dichloroethane	ND	1.0	109	110	0.9				70 - 130	30
1,1-Dichloroethene	ND	1.0	114	112	1.8				70 - 130	30
1,1-Dichloropropene	ND	1.0	115	116	0.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	94	97	3.1				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	103	106	2.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	100	103	3.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	113	111	1.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	97	100	3.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	106	108	1.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	105	105	0.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	105	106	0.9				70 - 130	30

QA/QC Data

SDG I.D.: GCO19489

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	%	%
									Rec Limits	RPD Limits
1,2-Dichloropropane	ND	1.0	105	107	1.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	115	113	1.8				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	109	108	0.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	108	111	2.7				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	107	106	0.9				70 - 130	30
1,4-dioxane	ND	100	120	130	8.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	107	107	0.0				70 - 130	30
2-Chlorotoluene	ND	1.0	114	111	2.7				70 - 130	30
2-Hexanone	ND	5.0	90	96	6.5				70 - 130	30
2-Isopropyltoluene	ND	1.0	112	111	0.9				70 - 130	30
4-Chlorotoluene	ND	1.0	113	112	0.9				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	94	100	6.2				70 - 130	30
Acetone	ND	5.0	98	103	5.0				70 - 130	30
Acrylonitrile	ND	5.0	102	108	5.7				70 - 130	30
Benzene	ND	0.70	110	109	0.9				70 - 130	30
Bromobenzene	ND	1.0	110	111	0.9				70 - 130	30
Bromochloromethane	ND	1.0	106	109	2.8				70 - 130	30
Bromodichloromethane	ND	0.50	105	108	2.8				70 - 130	30
Bromoform	ND	1.0	97	98	1.0				70 - 130	30
Bromomethane	ND	1.0	122	129	5.6				70 - 130	30
Carbon Disulfide	ND	1.0	108	106	1.9				70 - 130	30
Carbon tetrachloride	ND	1.0	111	111	0.0				70 - 130	30
Chlorobenzene	ND	1.0	108	108	0.0				70 - 130	30
Chloroethane	ND	1.0	115	113	1.8				70 - 130	30
Chloroform	ND	1.0	109	111	1.8				70 - 130	30
Chloromethane	ND	1.0	106	105	0.9				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	110	107	2.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	105	108	2.8				70 - 130	30
Dibromochloromethane	ND	0.50	105	106	0.9				70 - 130	30
Dibromomethane	ND	1.0	107	110	2.8				70 - 130	30
Dichlorodifluoromethane	ND	1.0	129	125	3.1				70 - 130	30
Ethylbenzene	ND	1.0	113	112	0.9				70 - 130	30
Hexachlorobutadiene	ND	0.40	108	107	0.9				70 - 130	30
Isopropylbenzene	ND	1.0	118	115	2.6				70 - 130	30
m&p-Xylene	ND	1.0	113	112	0.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	82	86	4.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	104	5.9				70 - 130	30
Methylene chloride	ND	1.0	102	103	1.0				70 - 130	30
Naphthalene	ND	1.0	98	101	3.0				70 - 130	30
n-Butylbenzene	ND	1.0	116	117	0.9				70 - 130	30
n-Propylbenzene	ND	1.0	117	113	3.5				70 - 130	30
o-Xylene	ND	1.0	110	109	0.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	116	116	0.0				70 - 130	30
sec-Butylbenzene	ND	1.0	116	115	0.9				70 - 130	30
Styrene	ND	1.0	112	112	0.0				70 - 130	30
tert-Butylbenzene	ND	1.0	117	116	0.9				70 - 130	30
Tetrachloroethene	ND	1.0	114	110	3.6				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	92	98	6.3				70 - 130	30
Toluene	ND	1.0	110	110	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	112	113	0.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	102	105	2.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	75	73	2.7				70 - 130	30
Trichloroethene	ND	1.0	111	110	0.9				70 - 130	30

QA/QC Data

SDG I.D.: GCO19489

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Trichlorofluoromethane	ND	1.0	119	117	1.7				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	107	108	0.9				70 - 130	30
Vinyl chloride	ND	1.0	118	114	3.4				70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	99	99	0.0				70 - 130	30
% Bromofluorobenzene	94	%	98	98	0.0				70 - 130	30
% Dibromofluoromethane	103	%	97	98	1.0				70 - 130	30
% Toluene-d8	95	%	101	100	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

June 21, 2023

Wednesday, June 21, 2023

Criteria: CT: GWP, SWP

State: CT

Sample Criteria Exceedances Report

GCO19489 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO19489	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO19489	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO19489	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/l
CO19490	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO19490	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO19490	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/l
CO19491	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO19491	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO19491	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/l
CO19492	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO19492	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO19493	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO19493	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO19494	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO19494	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO19489-CO19494

Sampling Date(s): 6/5/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: SVOA Narration, SVOASIM Narration, VOA Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Wednesday, June 21, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
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RCP Certification Report

June 21, 2023

SDG I.D.: GCO19489

SDG Comments

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.

Volatile 8260 analysis:

1,4-Dioxane does not meet the GWP. This compound is analyzed by method 522 or 8270SIM to achieve this criteria.

CO19489 CO19490 CO19491 CO19493:

The client requested a site specific list of elements which is shorter than the 6010 RCP list.

The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL1 06/12/23-1 Jeff Bucko, Chemist 06/12/23

CO19489 (1X), CO19490 (1X), CO19492 (1X), CO19493 (1X)

The initial calibration (ETPH515I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (612A003) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 06/19/23-1 Jeff Bucko, Chemist 06/19/23

CO19491 (1X)

The initial calibration (ETPH515I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (619A005_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 681620 (CO19119)

CO19489, CO19490, CO19491, CO19492, CO19493

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 682750 (CO27101)

co19491

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.



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Certification Report

June 21, 2023

SDG I.D.: GCO19489

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/07/23 09:49 Paul Marshall, Chemist 06/07/23

CO19489, CO19490, CO19491, CO19492, CO19493

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 680880 (CO19355)

CO19489, CO19490, CO19491, CO19492, CO19493

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 06/09/23 11:27 Tina Hall, Chemist 06/09/23

CO19489, CO19490, CO19491, CO19492, CO19493

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 680997 (CO19518)

CO19489, CO19490, CO19491, CO19492, CO19493

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:



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Certification Report

June 21, 2023

SDG I.D.: GCO19489

ICPMS Metals Narration

ICPMS 06/07/23 09:37

Cindy Pearce, Chemist 06/07/23

CO19492

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following samples did not meet internal standard criteria: None.

QC (Batch Specific):

Batch 680973 (CO18634)

CO19492

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD24 06/08/23-1

Saadia Chudary, Chemist 06/08/23

CO19492 (1X)

The initial calibration (PC0607AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC0607BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO19492

Preceding CC 608B020 - None.

Succeeding CC 608B033 - DCBP SURR -17%L (15%)

QC (Batch Specific):

Batch 681194 (CO18404)

CO19492

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

SVOA Narration



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RCP Certification Report

June 21, 2023

SDG I.D.: GCO19489

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 681615 (Samples: CO19492): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2,4-Dinitrophenol, 2-Chlorophenol, 3,3'-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, Aniline, Benzidine, Dimethylphthalate, Phenol)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% Terphenyl-d14)

Instrument:

CHEM22 06/12/23-1 Matt Richard, Chemist 06/12/23

CO19492 (1X)

Initial Calibration Evaluation (CHEM22/22_SPLIT_0604):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM22/0612_03-22_SPLIT_0604):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 681615 (CO18671)

CO19492

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: % Terphenyl-d14(22.2%), 2,4-Dinitrophenol(34.0%), 2-Chlorophenol(38.9%), 3,3'-Dichlorobenzidine(33.8%), 4,6-Dinitro-2-methylphenol(24.3%), Aniline(33.3%), Benzidine(52.9%), Dimethylphthalate(27.2%), Phenol(32.5%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration



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RCP Certification Report

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SDG I.D.: GCO19489

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 681615 (Samples: CO19492): -----

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Hexachlorocyclopentadiene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Benz(a)anthracene, Benzo(a)pyrene, Benzo(ghi)perylene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2,4,6-Tribromophenol, % Terphenyl-d14)

Instrument:

CHEM27 06/12/23-1

Adam Werner, Chemist 06/12/23

CO19492 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_SIM18_0425):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0612_03-27_SIM18_0425):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM69 06/10/23-1

Matt Richard, Chemist 06/10/23

CO19489 (1X, 1000X), CO19490 (1X), CO19491 (1X), CO19493 (1X)

Initial Calibration Evaluation (CHEM69/69_BNSIM18_0602):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM69/0610_03-69_BNSIM18_0602):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.



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RCP Certification Report

June 21, 2023

SDG I.D.: GCO19489

SVOASIM Narration

QC (Batch Specific):

Batch 681615 (CO18671)

CO19492

All LCS recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(26%)

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: % 2,4,6-Tribromophenol(35.4%), % Terphenyl-d14(20.7%), Benz(a)anthracene(21.3%), Benzo(a)pyrene(22.0%), Benzo(ghi)perylene(20.9%), Dibenz(a,h)anthracene(23.5%), Indeno(1,2,3-cd)pyrene(27.1%)

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 681618 (CO19489)

CO19489, CO19490, CO19491, CO19493

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 680987 (Samples: CO19492, CO19493, CO19494): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane)

Instrument:

CHEM02 06/05/23-2

Michael Hahn, Chemist 06/05/23

CO19492 (1X), CO19493 (1X), CO19494 (1X)

Chem02 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM02/VT-P060523):

94% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Bromoform 21% (20%), Naphthalene 22% (20%), trans-1,4-dichloro-2-butene 25% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: 1,1,2-Trichloroethane 0.080 (0.1), 1,2-Dibromo-3-chloropropane 0.021 (0.05), 1,2-Dibromoethane 0.085 (0.1), 2-Hexanone 0.025 (0.1), 4-Methyl-2-pentanone 0.032 (0.1), Acetone 0.019 (0.1), Acrylonitrile 0.018 (0.05), Bromoform 0.056 (0.1), Methyl ethyl ketone 0.021 (0.1), Tetrachloroethene 0.165 (0.2), Tetrahydrofuran (THF) 0.012 (0.05), Trichloroethene 0.196 (0.2)

The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.021 (0.05), 2-Hexanone 0.025 (0.05), 4-Methyl-2-pentanone 0.032 (0.05), Acetone 0.019 (0.05), Acrylonitrile 0.018 (0.05), Methyl ethyl ketone 0.021 (0.05), Tetrahydrofuran (THF) 0.012 (0.05)



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RCP Certification Report

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SDG I.D.: GCO19489

VOA Narration

Continuing Calibration Verification (CHEM02/0605_24-VT-P060523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.019 (0.05), 2-Hexanone 0.023 (0.05), 4-Methyl-2-pentanone 0.031 (0.05), Acetone 0.016 (0.05), Acrylonitrile 0.018 (0.05), Methyl ethyl ketone 0.021 (0.05), Tetrahydrofuran (THF) 0.012 (0.05)

CHEM17 06/06/23-2 Michael Hahn, Chemist 06/06/23

CO19489 (1X), CO19490 (1X), CO19491 (1X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-060523):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Naphthalene 23% (20%), trans-1,4-dichloro-2-butene 22% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.048 (0.1), 4-Methyl-2-pentanone 0.068 (0.1), Acetone 0.024 (0.1), Acrylonitrile 0.031 (0.05), Bromoform 0.096 (0.1), Methyl ethyl ketone 0.041 (0.1), Tetrahydrofuran (THF) 0.024 (0.05)

The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.048 (0.05), Acetone 0.024 (0.05), Acrylonitrile 0.031 (0.05), Methyl ethyl ketone 0.041 (0.05), Tetrahydrofuran (THF) 0.024 (0.05)

Continuing Calibration Verification (CHEM17/0606_15-VT-060523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: trans-1,4-dichloro-2-butene 36%L (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.037 (0.05), 2-Hexanone 0.044 (0.05), Acetone 0.025 (0.05), Acrylonitrile 0.032 (0.05), Methyl ethyl ketone 0.038 (0.05), Tetrahydrofuran (THF) 0.022 (0.05), trans-1,4-dichloro-2-butene 0.047 (0.05)

QC (Batch Specific):

Batch 680987 (CO19494) CHEM02 6/5/2023-2

CO19492(1X), CO19493(1X), CO19494(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(134%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 681159 (CO20494) CHEM17 6/6/2023-2

CO19489(1X), CO19490(1X), CO19491(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 21, 2023

SDG I.D.: GCO19489

VOA Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 2.0C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



Friday, June 16, 2023

Attn: Mr. James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO20484
Sample ID#s: CO20484 - CO20494

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

June 16, 2023

SDG I.D.: GCO20484

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 16, 2023

SDG I.D.: GCO20484

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
TMW-2	CO20484	GROUND WATER
TMW-7	CO20485	GROUND WATER
TMW-8	CO20486	GROUND WATER
TMW-10	CO20487	GROUND WATER
TMW-12	CO20488	GROUND WATER
TMW-16	CO20489	GROUND WATER
MW-2	CO20490	GROUND WATER
OW-1	CO20491	GROUND WATER
DUP-2	CO20492	GROUND WATER
DUP-3	CO20493	GROUND WATER
TRIP BLANK	CO20494	WATER



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/06/23
 06/06/23

Time

7:55
 15:40

Laboratory Data

SDG ID: GCO20484
 Phoenix ID: CO20484

Project ID: BRAINARD AIRPORT
 Client ID: TMW-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	TH	SW6010D
Barium	0.061	0.002	mg/L	1	06/09/23	TH	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/09/23	TH	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Nickel	0.004	0.001	mg/L	1	06/09/23	TH	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/09/23	TH	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/09/23	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	TH	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/09/23	TH	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/09/23	TH	SW6010D
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/07/23	ZT/AL	SW7470A
PCB Extraction	Completed				06/07/23	I/I	SW3510C
Semi-Volatile Extraction	Completed				06/12/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/07/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	74		%	1	06/12/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/08/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	1	06/08/23	SC	30 - 150 %
% DCBP (Confirmation)	86		%	1	06/08/23	SC	30 - 150 %
% TCMX	59		%	1	06/08/23	SC	30 - 150 %
% TCMX (Confirmation)	58		%	1	06/08/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C

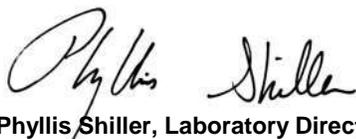
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/06/23	MH	70 - 130 %
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	0.05	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	06/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	74		%	1	06/13/23	KCA	30 - 130 %
% Terphenyl-d14	85		%	1	06/13/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/06/23
 06/06/23

Time

11:10
 15:40

Laboratory Data

SDG ID: GCO20484
 Phoenix ID: CO20485

Project ID: BRAINARD AIRPORT
 Client ID: TMW-7

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Arsenic	0.055	0.004	mg/L	1	06/09/23	CPP	SW6010D
Barium	0.069	0.002	mg/L	1	06/09/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Chromium	0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/09/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Nickel	0.002	0.001	mg/L	1	06/09/23	CPP	SW6010D
Lead	0.003	0.001	mg/L	1	06/09/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/09/23	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/09/23	CPP	SW6010D
Zinc	0.008	0.004	mg/L	1	06/09/23	CPP	SW6010D
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/07/23	ZT/AL	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/09/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/08/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	72		%	1	06/12/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	60		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	54		%	1	06/09/23	SC	30 - 150 %
% TCMX	84		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	86		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	2.9	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/06/23	MH	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	06/13/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	06/13/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	2.5	ug/L	1	06/13/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	06/13/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Chlorophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Nitrophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.8	ug/L	1	06/13/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Nitrophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Acetophenone	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Aniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Benzidine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Benzoic acid	ND	49	ug/L	1	06/13/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Carbazole	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Dibenzofuran	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Hexachloroethane	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Isophorone	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.5	ug/L	1	06/13/23	KCA	SW8270D
Phenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	75		%	1	06/13/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	55		%	1	06/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	45		%	1	06/13/23	KCA	15 - 110 %
% Nitrobenzene-d5	72		%	1	06/13/23	KCA	30 - 130 %
% Phenol-d5	42		%	1	06/13/23	KCA	15 - 110 %
% Terphenyl-d14	61		%	1	06/13/23	KCA	30 - 130 %

Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)

QA/QC Surrogates

% 2,4,6-Tribromophenol	98		%	1	06/13/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	71		%	1	06/13/23	KCA	30 - 130 %
% 2-Fluorophenol	55		%	1	06/13/23	KCA	15 - 110 %
% Nitrobenzene-d5	83		%	1	06/13/23	KCA	30 - 130 %
% Phenol-d5	61		%	1	06/13/23	KCA	15 - 110 %
% Terphenyl-d14	79		%	1	06/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/06/23
 06/06/23

Time

12:00
 15:40

Laboratory Data

SDG ID: GCO20484
 Phoenix ID: CO20486

Project ID: BRAINARD AIRPORT
 Client ID: TMW-8

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	CPP	SW6010D
Barium	0.018	0.002	mg/L	1	06/09/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/09/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Nickel	0.002	0.001	mg/L	1	06/09/23	CPP	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/09/23	TH	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/09/23	CPP	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/09/23	CPP	SW6010D
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/07/23	ZT/AL	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/09/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/08/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	121		%	1	06/12/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	77		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	71		%	1	06/09/23	SC	30 - 150 %
% TCMX	83		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	83		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	95		%	1	06/06/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/l	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/06/23	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	95		%	1	06/06/23	MH	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	06/13/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/13/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/13/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/13/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Chlorophenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Nitrophenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.7	ug/L	1	06/13/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Nitrophenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
Acetophenone	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Aniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Benzidine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Benzoic acid	ND	49	ug/L	1	06/13/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
Carbazole	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Dibenzofuran	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Hexachloroethane	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
Isophorone	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/13/23	KCA	SW8270D
Phenol	ND	0.97	ug/L	1	06/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	65		%	1	06/13/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	62		%	1	06/13/23	KCA	30 - 130 %
% 2-Fluorophenol	34		%	1	06/13/23	KCA	15 - 110 %
% Nitrobenzene-d5	77		%	1	06/13/23	KCA	30 - 130 %
% Phenol-d5	45		%	1	06/13/23	KCA	15 - 110 %
% Terphenyl-d14	62		%	1	06/13/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	95		%	1	06/13/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	72		%	1	06/13/23	KCA	30 - 130 %
% 2-Fluorophenol	44		%	1	06/13/23	KCA	15 - 110 %
% Nitrobenzene-d5	84		%	1	06/13/23	KCA	30 - 130 %
% Phenol-d5	68		%	1	06/13/23	KCA	15 - 110 %
% Terphenyl-d14	85		%	1	06/13/23	KCA	30 - 130 %
Extraction for 1,4-Dioxane	Completed				06/07/23	G/G	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: LB
Analyzed by: see "By" below

Date

06/06/23
06/06/23

Time

9:05
15:40

Laboratory Data

SDG ID: GCO20484
Phoenix ID: CO20487

Project ID: BRAINARD AIRPORT
Client ID: TMW-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/12/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/08/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.070	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	70		%	1	06/12/23	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C

QA/QC Surrogates

% 1,2-dichlorobenzene-d4	102		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/06/23	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)

QA/QC Surrogates

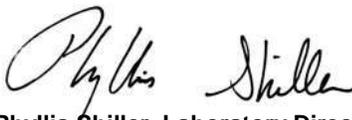
% 2-Fluorobiphenyl	76		%	1	06/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	70		%	1	06/13/23	KCA	30 - 130 %
% Terphenyl-d14	89		%	1	06/13/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/06/23
 06/06/23

Time

12:45
 15:40

Laboratory Data

SDG ID: GCO20484
 Phoenix ID: CO20488

Project ID: BRAINARD AIRPORT
 Client ID: TMW-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Arsenic	0.009	0.004	mg/L	1	06/09/23	CPP	SW6010D
Barium	0.087	0.002	mg/L	1	06/09/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/09/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	PM	SW7470A
Nickel	0.006	0.001	mg/L	1	06/09/23	CPP	SW6010D
Lead	0.003	0.001	mg/L	1	06/09/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/09/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/09/23	CPP	SW6010D
Zinc	0.007	0.004	mg/L	1	06/09/23	CPP	SW6010D
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/07/23	ZT/AL	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/09/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/08/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	73		%	1	06/12/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	72		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	66		%	1	06/09/23	SC	30 - 150 %
% TCMX	91		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	89		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	112		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	106		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	123		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	97		%	1	06/06/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/l	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	112		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	106		%	1	06/06/23	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	123		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	97		%	1	06/06/23	MH	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	06/13/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	06/13/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	06/13/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	06/13/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Chlorophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
2-Nitrophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.8	ug/L	1	06/13/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
4-Nitrophenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Acetophenone	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Aniline	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Benzidine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Benzoic acid	ND	49	ug/L	1	06/13/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Carbazole	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Dibenzofuran	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Hexachloroethane	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
Isophorone	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	06/13/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.5	ug/L	1	06/13/23	KCA	SW8270D
Phenol	ND	0.98	ug/L	1	06/13/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	70		%	1	06/13/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	59		%	1	06/13/23	KCA	30 - 130 %
% 2-Fluorophenol	48		%	1	06/13/23	KCA	15 - 110 %
% Nitrobenzene-d5	74		%	1	06/13/23	KCA	30 - 130 %
% Phenol-d5	49		%	1	06/13/23	KCA	15 - 110 %
% Terphenyl-d14	64		%	1	06/13/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	104		%	1	06/13/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	72		%	1	06/13/23	KCA	30 - 130 %
% 2-Fluorophenol	57		%	1	06/13/23	KCA	15 - 110 %
% Nitrobenzene-d5	82		%	1	06/13/23	KCA	30 - 130 %
% Phenol-d5	74		%	1	06/13/23	KCA	15 - 110 %
% Terphenyl-d14	82		%	1	06/13/23	KCA	30 - 130 %
Extraction for 1,4-Dioxane	Completed				06/07/23	G/G	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: LB
Analyzed by: see "By" below

Date

06/06/23
06/06/23

Time

10:05
15:40

Laboratory Data

SDG ID: GCO20484
Phoenix ID: CO20489

Project ID: BRAINARD AIRPORT
Client ID: TMW-16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	CPP	SW6010D
Barium	0.021	0.002	mg/L	1	06/09/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Chromium	0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	AL1	SW7470A
Lead	0.002	0.001	mg/L	1	06/09/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	CPP	SW6010D
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/07/23	ZT/AL	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/12/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/08/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	74		%	1	06/12/23	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	91		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	82		%	1	06/09/23	SC	30 - 150 %
% TCMX	85		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	84		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/06/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/l	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/06/23	MH	70 - 130 %
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	0.05	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/13/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	79		%	1	06/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	77		%	1	06/13/23	KCA	30 - 130 %
% Terphenyl-d14	88		%	1	06/13/23	KCA	30 - 130 %
Extraction for 1,4-Dioxane	Completed				06/07/23	G/G	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/06/23
 06/06/23

Time

14:50
 15:40

Laboratory Data

SDG ID: GCO20484
 Phoenix ID: CO20490

Project ID: BRAINARD AIRPORT
 Client ID: MW-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	CPP	SW6010D
Barium	0.714	0.002	mg/L	1	06/09/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Cadmium	0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Chromium	0.002	0.001	mg/L	1	06/09/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/09/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	AL1	SW7470A
Nickel	0.007	0.001	mg/L	1	06/09/23	CPP	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/09/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/09/23	CPP	SW6010D
Zinc	0.005	0.004	mg/L	1	06/09/23	CPP	SW6010D
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/07/23	ZT/AL	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/12/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/08/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	118		%	1	06/12/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	80		%	1	06/09/23	SC	30 - 150 %
% TCMX	93		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	94		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	06/06/23	MH	70 - 130 %
% Toluene-d8	95		%	1	06/06/23	MH	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/14/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/14/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/14/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/14/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	06/14/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
Acetophenone	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Aniline	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Benzidine	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Benzoic acid	ND	47	ug/L	1	06/14/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
Carbazole	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Dibenzofuran	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Hexachloroethane	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
Isophorone	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	06/14/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/14/23	KCA	SW8270D
Phenol	ND	0.94	ug/L	1	06/14/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	55		%	1	06/14/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	49		%	1	06/14/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	41		%	1	06/14/23	KCA	15 - 110 %
% Nitrobenzene-d5	48		%	1	06/14/23	KCA	30 - 130 %
% Phenol-d5	46		%	1	06/14/23	KCA	15 - 110 %
% Terphenyl-d14	50		%	1	06/14/23	KCA	30 - 130 %

Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)

QA/QC Surrogates

% 2,4,6-Tribromophenol	65		%	1	06/14/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	55		%	1	06/14/23	KCA	30 - 130 %
% 2-Fluorophenol	53		%	1	06/14/23	KCA	15 - 110 %
% Nitrobenzene-d5	64		%	1	06/14/23	KCA	30 - 130 %
% Phenol-d5	66		%	1	06/14/23	KCA	15 - 110 %
% Terphenyl-d14	61		%	1	06/14/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/06/23
 06/06/23

Time

13:45
 15:40

Laboratory Data

SDG ID: GCO20484
 Phoenix ID: CO20491

Project ID: BRAINARD AIRPORT
 Client ID: OW-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/09/23	CPP	SW6010D
Barium	0.002	0.002	mg/L	1	06/09/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/09/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/07/23	AL1	SW7470A
Nickel	< 0.001	0.001	mg/L	1	06/09/23	CPP	SW6010D
Lead	0.004	0.001	mg/L	1	06/09/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/09/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/09/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	0.002	0.002	mg/L	1	06/09/23	CPP	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/09/23	CPP	SW6010D
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/07/23	ZT/AL	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/12/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/08/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	67		%	1	06/12/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	75		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	69		%	1	06/09/23	SC	30 - 150 %
% TCMX	71		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	73		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/07/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/07/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/07/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	06/07/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/07/23	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	06/07/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/07/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/l	1	06/07/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	06/07/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/07/23	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	101		%	1	06/07/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/07/23	MH	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/14/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/14/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/14/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/14/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
2-Chlorophenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
2-Nitrophenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.5	ug/L	1	06/14/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
4-Nitrophenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
Acetophenone	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Aniline	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Benzidine	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Benzoic acid	ND	48	ug/L	1	06/14/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
Carbazole	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Dibenzofuran	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Hexachloroethane	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
Isophorone	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	06/14/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/14/23	KCA	SW8270D
Phenol	ND	0.95	ug/L	1	06/14/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	59		%	1	06/14/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	53		%	1	06/14/23	KCA	30 - 130 %
% 2-Fluorophenol	40		%	1	06/14/23	KCA	15 - 110 %
% Nitrobenzene-d5	51		%	1	06/14/23	KCA	30 - 130 %
% Phenol-d5	46		%	1	06/14/23	KCA	15 - 110 %
% Terphenyl-d14	54		%	1	06/14/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Anthracene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Chrysene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Fluorene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Pyrene	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Pyridine	ND	0.48	ug/L	1	06/14/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	76		%	1	06/14/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	58		%	1	06/14/23	KCA	30 - 130 %
% 2-Fluorophenol	54		%	1	06/14/23	KCA	15 - 110 %
% Nitrobenzene-d5	72		%	1	06/14/23	KCA	30 - 130 %
% Phenol-d5	66		%	1	06/14/23	KCA	15 - 110 %
% Terphenyl-d14	65		%	1	06/14/23	KCA	30 - 130 %
Extraction for 1,4-Dioxane	Completed				06/07/23	G/G	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/06/23
 06/06/23

Time

9:06
 15:40

Laboratory Data

SDG ID: GCO20484
 Phoenix ID: CO20492

Project ID: BRAINARD AIRPORT
 Client ID: DUP-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of ETPH	Completed				06/09/23	X/MQ	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/12/23	X/MQ	SW3520C

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/12/23	JRB	CTETPH
Identification	ND		mg/L	1	06/12/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	68		%	1	06/12/23	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/07/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/07/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/07/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	06/07/23	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	06/07/23	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	06/07/23	MH	70 - 130 %
% Toluene-d8	96		%	1	06/07/23	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/13/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/13/23	KCA	SW8270D (SIM)

QA/QC Surrogates

% 2-Fluorobiphenyl	73		%	1	06/13/23	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	1	06/13/23	KCA	30 - 130 %
% Terphenyl-d14	80		%	1	06/13/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: LB
Analyzed by: see "By" below

Date

06/06/23
06/06/23

Time

12:46
15:40

Laboratory Data

SDG ID: GCO20484
Phoenix ID: CO20493

Project ID: BRAINARD AIRPORT
Client ID: DUP-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/07/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C

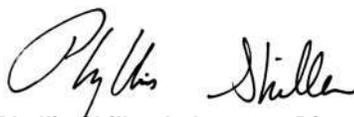
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/07/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/07/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/07/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/07/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/07/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/07/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/07/23	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/07/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/07/23	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	06/07/23	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97		%	1	06/07/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	40	ug/l	1	06/07/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	06/07/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/07/23	MH	70 - 130 %
% Dibromofluoromethane	98		%	1	06/07/23	MH	70 - 130 %
% Toluene-d8	97		%	1	06/07/23	MH	70 - 130 %
Extraction for 1,4-Dioxane	Completed				06/07/23	G/G	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 16, 2023

FOR: Attn: Mr. James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: LB
Analyzed by: see "By" below

Date

06/06/23
06/06/23

Time

15:40

Laboratory Data

SDG ID: GCO20484
Phoenix ID: CO20494

Project ID: BRAINARD AIRPORT
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
1,2-Dibromoethane	ND	0.25	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/06/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/06/23	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/06/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/06/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/06/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/06/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/06/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/06/23	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/06/23	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	06/06/23	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	06/06/23	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	94		%	1	06/06/23	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 16, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 16, 2023

QA/QC Data

SDG I.D.: GCO20484

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 681088 (mg/L), QC Sample No: CO20636 (CO20484, CO20485, CO20486, CO20488, CO20489, CO20490, CO20491)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	88.2			91.1			80 - 120	20
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Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 681171 (mg/L), QC Sample No: CO19138 (CO20484)

ICP Metals - Aqueous

Antimony	BRL	0.005	<0.005	<0.005	NC	102	100	2.0	99.7			80 - 120	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	101	99.0	2.0	100			80 - 120	20
Barium	BRL	0.002	0.048	0.047	2.10	103	101	2.0	100			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	104	102	1.9	101			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	103	99.9	3.1	98.4			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	104	102	1.9	101			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	105	102	2.9	104			80 - 120	20
Lead	BRL	0.001	<0.001	<0.001	NC	104	102	1.9	102			80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	107	105	1.9	103			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	96.6	93.8	2.9	94.1			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	105	102	2.9	103			80 - 120	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	104	102	1.9	102			80 - 120	20
Zinc	BRL	0.004	<0.004	<0.004	NC	101	98.5	2.5	99.2			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 681393 (mg/L), QC Sample No: CO20487 (CO20485, CO20486, CO20487, CO20488, CO20489, CO20490, CO20491)

ICP Metals - Aqueous

Antimony	BRL	0.005	<0.005	<0.005	NC	99.4	103	3.6	97.5			80 - 120	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.4	104	5.5	97.2			80 - 120	20
Barium	BRL	0.002	0.040	0.040	0	102	103	1.0	98.7			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	103	104	1.0	100			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.9	101	2.1	96.1			80 - 120	20
Chromium	BRL	0.001	0.002	0.002	NC	99.2	100	0.8	96.0			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	102	102	0.0	98.9			80 - 120	20
Lead	BRL	0.001	0.001	0.001	NC	99.0	104	4.9	97.4			80 - 120	20
Nickel	BRL	0.001	0.002	0.002	NC	100	102	2.0	96.8			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	99.1	103	3.9	93.7			80 - 120	20
Silver	BRL	0.001	0.002	<0.001	NC	101	105	3.9	98.5			80 - 120	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	98.9	99.9	1.0	96.5			80 - 120	20
Zinc	BRL	0.004	<0.004	<0.004	NC	98.9	100	1.1	96.4			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 681169 (mg/L), QC Sample No: CO20484 5X (CO20484, CO20485, CO20486, CO20488, CO20490, CO20491)

ICP MS Metals - Aqueous

Thallium	BRL	0.0005	<0.0005	<0.0005	NC	98.8	102	3.2	101			80 - 120	20
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QA/QC Data

SDG I.D.: GCO20484

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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 Tel. (860) 645-1102

QA/QC Report

June 16, 2023

QA/QC Data

SDG I.D.: GCO20484

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

QA/QC Batch 681701 (mg/L), QC Sample No: CO20485 (CO20484, CO20485, CO20486, CO20487, CO20488, CO20489, CO20490, CO20491, CO20492)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	82	71	14.4				60 - 120	30
% Terphenyl (surr)	88	%	81	74	9.0				50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 681194 (ug/L), QC Sample No: CO18404 (CO20484)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.25	95	82	14.7				40 - 140	20
PCB-1221	ND	0.25							40 - 140	20
PCB-1232	ND	0.25							40 - 140	20
PCB-1242	ND	0.25							40 - 140	20
PCB-1248	ND	0.25							40 - 140	20
PCB-1254	ND	0.25							40 - 140	20
PCB-1260	ND	0.25	84	76	10.0				40 - 140	20
PCB-1262	ND	0.25							40 - 140	20
PCB-1268	ND	0.25							40 - 140	20
% DCBP (Surrogate Rec)	82	%	89	78	13.2				30 - 150	20
% DCBP (Surrogate Rec) (Confirm)	79	%	87	80	8.4				30 - 150	20
% TCMX (Surrogate Rec)	74	%	70	65	7.4				30 - 150	20
% TCMX (Surrogate Rec) (Confirm)	71	%	69	65	6.0				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 681402 (ug/L), QC Sample No: CO20485 (CO20485, CO20486, CO20488, CO20489, CO20490, CO20491)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.25	81	87	7.1				40 - 140	20
PCB-1221	ND	0.25							40 - 140	20
PCB-1232	ND	0.25							40 - 140	20
PCB-1242	ND	0.25							40 - 140	20
PCB-1248	ND	0.25							40 - 140	20
PCB-1254	ND	0.25							40 - 140	20
PCB-1260	ND	0.25	91	97	6.4				40 - 140	20
PCB-1262	ND	0.25							40 - 140	20
PCB-1268	ND	0.25							40 - 140	20
% DCBP (Surrogate Rec)	91	%	87	91	4.5				30 - 150	20
% DCBP (Surrogate Rec) (Confirm)	84	%	82	83	1.2				30 - 150	20
% TCMX (Surrogate Rec)	76	%	69	73	5.6				30 - 150	20
% TCMX (Surrogate Rec) (Confirm)	78	%	73	78	6.6				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Data

SDG I.D.: GCO20484

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
QA/QC Batch 681702 (ug/L), QC Sample No: CO19742 (CO20485, CO20486, CO20488)											
<u>Semivolatiles - Ground Water</u>											
1,2,4,5-Tetrachlorobenzene	ND	3.5	83	85	2.4				40 - 140	20	
1,2,4-Trichlorobenzene	ND	3.5	85	86	1.2				40 - 140	20	
1,2-Dichlorobenzene	ND	1.0	81	80	1.2				40 - 140	20	
1,2-Diphenylhydrazine	ND	1.6	20	74	114.9				40 - 140	20	I,r
1,3-Dichlorobenzene	ND	1.0	83	83	0.0				40 - 140	20	
1,4-Dichlorobenzene	ND	1.0	83	84	1.2				40 - 140	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	86	85	1.2				40 - 140	20	
2,4,5-Trichlorophenol	ND	1.0	86	89	3.4				40 - 140	20	
2,4,6-Trichlorophenol	ND	1.0	90	94	4.3				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	95	95	0.0				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	95	97	2.1				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	88	92	4.4				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	93	96	3.2				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	89	91	2.2				40 - 140	20	
2-Chloronaphthalene	ND	3.5	79	83	4.9				40 - 140	20	
2-Chlorophenol	ND	1.0	85	85	0.0				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	84	83	1.2				40 - 140	20	
2-Nitroaniline	ND	3.5	70	101	36.3				40 - 140	20	r
2-Nitrophenol	ND	1.0	93	94	1.1				40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	87	88	1.1				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	<10	<10	NC				40 - 140	20	I
3-Nitroaniline	ND	5.0	22	31	34.0				40 - 140	20	I,r
4,6-Dinitro-2-methylphenol	ND	1.0	95	99	4.1				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	88	89	1.1				40 - 140	20	
4-Chloro-3-methylphenol	ND	1.0	102	105	2.9				30 - 130	20	
4-Chloroaniline	ND	3.5	24	28	15.4				40 - 140	20	I
4-Chlorophenyl phenyl ether	ND	1.0	83	87	4.7				40 - 140	20	
4-Nitroaniline	ND	5.0	88	92	4.4				40 - 140	20	
4-Nitrophenol	ND	1.0	91	98	7.4				30 - 130	20	
Acetophenone	ND	3.5	81	81	0.0				40 - 140	20	
Aniline	ND	3.5	<10	22	NC				40 - 140	20	I
Benzidine	ND	4.5	<10	<10	NC				40 - 140	20	I
Benzoic acid	ND	10	77	107	32.6				30 - 130	20	r
Benzyl butyl phthalate	ND	1.5	66	91	31.8				40 - 140	20	r
Bis(2-chloroethoxy)methane	ND	3.5	12	22	58.8				40 - 140	20	I,r
Bis(2-chloroethyl)ether	ND	1.0	85	85	0.0				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	94	93	1.1				40 - 140	20	
Carbazole	ND	5.0	14	56	120.0				40 - 140	20	I,r
Dibenzofuran	ND	3.5	81	84	3.6				40 - 140	20	
Diethyl phthalate	ND	1.5	88	92	4.4				40 - 140	20	
Dimethylphthalate	ND	1.5	87	90	3.4				40 - 140	20	
Di-n-butylphthalate	ND	1.5	93	93	0.0				40 - 140	20	
Di-n-octylphthalate	ND	1.5	95	94	1.1				40 - 140	20	
Hexachloroethane	ND	3.5	83	85	2.4				40 - 140	20	
Isophorone	ND	3.5	86	85	1.2				40 - 140	20	
N-Nitrosodimethylamine	ND	1.0	92	90	2.2				40 - 140	20	
N-Nitrosodi-n-propylamine	ND	3.5	86	86	0.0				40 - 140	20	
N-Nitrosodiphenylamine	ND	3.5	65	73	11.6				40 - 140	20	
Pentachloronitrobenzene	ND	5.0	85	83	2.4				40 - 140	20	
Phenol	ND	1.0	72	73	1.4				30 - 130	20	

QA/QC Data

SDG I.D.: GCO20484

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% 2,4,6-Tribromophenol	82	%	85	83	2.4				15 - 110	20
% 2-Fluorobiphenyl	72	%	76	80	5.1				30 - 130	20
% 2-Fluorophenol	58	%	76	74	2.7				15 - 110	20
% Nitrobenzene-d5	66	%	84	83	1.2				30 - 130	20
% Phenol-d5	62	%	67	72	7.2				15 - 110	20
% Terphenyl-d14	78	%	79	80	1.3				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 681883 (ug/L), QC Sample No: CO23176 (CO20490, CO20491)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	84	77	8.7				40 - 140	20	
1,2,4-Trichlorobenzene	ND	3.5	83	77	7.5				40 - 140	20	
1,2-Dichlorobenzene	ND	1.0	73	74	1.4				40 - 140	20	
1,2-Diphenylhydrazine	ND	1.6	83	68	19.9				40 - 140	20	
1,3-Dichlorobenzene	ND	1.0	75	72	4.1				40 - 140	20	
1,4-Dichlorobenzene	ND	1.0	76	72	5.4				40 - 140	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	66	63	4.7				40 - 140	20	
2,4,5-Trichlorophenol	ND	1.0	92	87	5.6				40 - 140	20	
2,4,6-Trichlorophenol	ND	1.0	93	85	9.0				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	89	80	10.7				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	96	84	13.3				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	78	80	2.5				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	95	86	9.9				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	96	86	11.0				40 - 140	20	
2-Chloronaphthalene	ND	3.5	87	80	8.4				40 - 140	20	
2-Chlorophenol	ND	1.0	82	77	6.3				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	77	70	9.5				40 - 140	20	
2-Nitroaniline	ND	3.5	107	74	36.5				40 - 140	20	r
2-Nitrophenol	ND	1.0	95	83	13.5				40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	70	65	7.4				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	69	<10	NC				40 - 140	20	l
3-Nitroaniline	ND	5.0	90	31	97.5				40 - 140	20	l,r
4,6-Dinitro-2-methylphenol	ND	1.0	89	85	4.6				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	89	81	9.4				40 - 140	20	
4-Chloro-3-methylphenol	ND	1.0	97	89	8.6				30 - 130	20	
4-Chloroaniline	ND	3.5	70	18	118.2				40 - 140	20	l,r
4-Chlorophenyl phenyl ether	ND	1.0	90	83	8.1				40 - 140	20	
4-Nitroaniline	ND	5.0	86	77	11.0				40 - 140	20	
4-Nitrophenol	ND	1.0	104	103	1.0				30 - 130	20	
Acetophenone	ND	3.5	77	71	8.1				40 - 140	20	
Aniline	ND	3.5	57	12	130.4				40 - 140	20	l,r
Benzidine	ND	4.5	42	<10	NC				40 - 140	20	l
Benzoic acid	ND	10	51	68	28.6				30 - 130	20	r
Benzyl butyl phthalate	ND	1.5	98	85	14.2				40 - 140	20	
Bis(2-chloroethoxy)methane	ND	3.5	84	39	73.2				40 - 140	20	l,r
Bis(2-chloroethyl)ether	ND	1.0	70	67	4.4				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	93	87	6.7				40 - 140	20	
Carbazole	ND	5.0	88	55	46.2				40 - 140	20	r
Dibenzofuran	ND	3.5	89	81	9.4				40 - 140	20	
Diethyl phthalate	ND	1.5	97	89	8.6				40 - 140	20	
Dimethylphthalate	ND	1.5	93	86	7.8				40 - 140	20	

QA/QC Data

SDG I.D.: GCO20484

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Di-n-butylphthalate	ND	1.5	94	89	5.5				40 - 140	20
Di-n-octylphthalate	ND	1.5	95	92	3.2				40 - 140	20
Hexachloroethane	ND	3.5	72	71	1.4				40 - 140	20
Isophorone	ND	3.5	77	68	12.4				40 - 140	20
N-Nitrosodimethylamine	ND	1.0	51	46	10.3				40 - 140	20
N-Nitrosodi-n-propylamine	ND	3.5	78	73	6.6				40 - 140	20
N-Nitrosodiphenylamine	ND	3.5	82	58	34.3				40 - 140	20
Pentachloronitrobenzene	ND	5.0	89	82	8.2				40 - 140	20
Phenol	ND	1.0	74	68	8.5				30 - 130	20
% 2,4,6-Tribromophenol	63	%	84	78	7.4				15 - 110	20
% 2-Fluorobiphenyl	56	%	79	73	7.9				30 - 130	20
% 2-Fluorophenol	54	%	60	55	8.7				15 - 110	20
% Nitrobenzene-d5	54	%	73	67	8.6				30 - 130	20
% Phenol-d5	58	%	70	62	12.1				15 - 110	20
% Terphenyl-d14	61	%	78	70	10.8				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 681702 (ug/L), QC Sample No: CO19742 (CO20485, CO20486, CO20488)

Semivolatiles (SIM) - Ground Water

2-Methylnaphthalene	ND	0.50	59	61	3.3				30 - 130	20
Acenaphthene	ND	0.50	81	86	6.0				30 - 130	20
Acenaphthylene	ND	0.50	26	58	76.2				30 - 130	20
Anthracene	ND	0.50	75	79	5.2				30 - 130	20
Benz(a)anthracene	ND	0.50	79	81	2.5				30 - 130	20
Benzo(a)pyrene	ND	0.50	46	61	28.0				30 - 130	20
Benzo(b)fluoranthene	ND	0.50	80	85	6.1				30 - 130	20
Benzo(ghi)perylene	ND	0.50	67	82	20.1				30 - 130	20
Benzo(k)fluoranthene	ND	0.50	80	84	4.9				30 - 130	20
Chrysene	ND	0.50	79	83	4.9				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50	78	85	8.6				30 - 130	20
Fluoranthene	ND	0.50	83	84	1.2				30 - 130	20
Fluorene	ND	0.50	82	84	2.4				30 - 130	20
Hexachlorobenzene	ND	0.50	73	69	5.6				30 - 130	20
Hexachlorobutadiene	ND	0.50	78	82	5.0				30 - 130	20
Hexachlorocyclopentadiene	ND	0.50	32	33	3.1				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50	72	80	10.5				30 - 130	20
Naphthalene	ND	0.50	79	86	8.5				30 - 130	20
Nitrobenzene	ND	0.50	81	84	3.6				30 - 130	20
Pentachlorophenol	ND	0.50	83	77	7.5				30 - 130	20
Phenanthrene	ND	0.50	85	88	3.5				30 - 130	20
Pyrene	ND	0.50	71	83	15.6				30 - 130	20
Pyridine	ND	0.50	16	19	17.1				30 - 130	20
% 2,4,6-Tribromophenol	108	%	101	95	6.1				15 - 110	20
% 2-Fluorobiphenyl	76	%	70	73	4.2				30 - 130	20
% 2-Fluorophenol	73	%	65	66	1.5				15 - 110	20
% Nitrobenzene-d5	90	%	82	80	2.5				30 - 130	20
% Phenol-d5	89	%	70	76	8.2				15 - 110	20
% Terphenyl-d14	92	%	82	82	0.0				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Data

SDG I.D.: GCO20484

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 681884 (ug/L), QC Sample No: CO20489 (CO20484, CO20487, CO20489, CO20492)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	76	85	11.2				30 - 130	20
Acenaphthene	ND	0.50	78	87	10.9				30 - 130	20
Acenaphthylene	ND	0.10	81	91	11.6				30 - 130	20
Anthracene	ND	0.10	87	96	9.8				30 - 130	20
Benz(a)anthracene	ND	0.02	124	138	10.7				30 - 130	20
Benzo(a)pyrene	ND	0.02	103	114	10.1				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	96	104	8.0				30 - 130	20
Benzo(ghi)perylene	ND	0.02	85	92	7.9				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	96	115	18.0				30 - 130	20
Chrysene	ND	0.02	107	121	12.3				30 - 130	20
Dibenz(a,h)anthracene	ND	0.02	100	109	8.6				30 - 130	20
Fluoranthene	ND	0.50	91	102	11.4				30 - 130	20
Fluorene	ND	0.10	87	98	11.9				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	105	114	8.2				30 - 130	20
Naphthalene	ND	0.50	58	64	9.8				30 - 130	20
Phenanthrene	ND	0.06	89	100	11.6				30 - 130	20
Pyrene	ND	0.07	95	105	10.0				30 - 130	20
% 2-Fluorobiphenyl	82	%	69	82	17.2				30 - 130	20
% Nitrobenzene-d5	82	%	67	75	11.3				30 - 130	20
% Terphenyl-d14	96	%	85	98	14.2				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 681883 (ug/L), QC Sample No: CO23176 (CO20490, CO20491)

Semivolatiles (SIM) - Ground Water

2-Methylnaphthalene	ND	0.50	70	68	2.9				30 - 130	20
Acenaphthene	ND	0.50	89	77	14.5				30 - 130	20
Acenaphthylene	ND	0.50	76	59	25.2				30 - 130	20
Anthracene	ND	0.50	83	73	12.8				30 - 130	20
Benz(a)anthracene	ND	0.50	87	76	13.5				30 - 130	20
Benzo(a)pyrene	ND	0.50	82	61	29.4				30 - 130	20
Benzo(b)fluoranthene	ND	0.50	92	81	12.7				30 - 130	20
Benzo(ghi)perylene	ND	0.50	88	76	14.6				30 - 130	20
Benzo(k)fluoranthene	ND	0.50	92	83	10.3				30 - 130	20
Chrysene	ND	0.50	83	74	11.5				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50	91	81	11.6				30 - 130	20
Fluoranthene	ND	0.50	87	78	10.9				30 - 130	20
Fluorene	ND	0.50	85	74	13.8				30 - 130	20
Hexachlorobenzene	ND	0.50	69	62	10.7				30 - 130	20
Hexachlorobutadiene	ND	0.50	79	82	3.7				30 - 130	20
Hexachlorocyclopentadiene	ND	0.50	36	34	5.7				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50	86	75	13.7				30 - 130	20
Naphthalene	ND	0.50	79	79	0.0				30 - 130	20
Nitrobenzene	ND	0.50	78	78	0.0				30 - 130	20
Pentachlorophenol	ND	0.50	90	88	2.2				30 - 130	20
Phenanthrene	ND	0.50	91	81	11.6				30 - 130	20
Pyrene	ND	0.50	89	78	13.2				30 - 130	20
Pyridine	ND	0.50	44	39	12.0				30 - 130	20
% 2,4,6-Tribromophenol	82	%	101	88	13.8				15 - 110	20
% 2-Fluorobiphenyl	68	%	69	62	10.7				30 - 130	20

QA/QC Data

SDG I.D.: GCO20484

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
% 2-Fluorophenol	64	%	66	59	11.2				15 - 110	20
% Nitrobenzene-d5	81	%	82	72	13.0				30 - 130	20
% Phenol-d5	84	%	84	73	14.0				15 - 110	20
% Terphenyl-d14	79	%	80	74	7.8				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 681159 (ug/L), QC Sample No: CO20494 (CO20484, CO20485, CO20486, CO20487, CO20488, CO20489, CO20490, CO20491, CO20492, CO20493, CO20494)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	108	110	1.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	113	112	0.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	104	106	1.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	103	105	1.9				70 - 130	30
1,1-Dichloroethane	ND	1.0	109	110	0.9				70 - 130	30
1,1-Dichloroethene	ND	1.0	114	112	1.8				70 - 130	30
1,1-Dichloropropene	ND	1.0	115	116	0.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	94	97	3.1				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	103	106	2.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	100	103	3.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	113	111	1.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	97	100	3.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	106	108	1.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	105	105	0.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	105	106	0.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	105	107	1.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	115	113	1.8				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	109	108	0.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	108	111	2.7				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	107	106	0.9				70 - 130	30
1,4-dioxane	ND	100	120	130	8.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	107	107	0.0				70 - 130	30
2-Chlorotoluene	ND	1.0	114	111	2.7				70 - 130	30
2-Hexanone	ND	5.0	90	96	6.5				70 - 130	30
2-Isopropyltoluene	ND	1.0	112	111	0.9				70 - 130	30
4-Chlorotoluene	ND	1.0	113	112	0.9				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	94	100	6.2				70 - 130	30
Acetone	ND	5.0	98	103	5.0				70 - 130	30
Acrylonitrile	ND	5.0	102	108	5.7				70 - 130	30
Benzene	ND	0.70	110	109	0.9				70 - 130	30
Bromobenzene	ND	1.0	110	111	0.9				70 - 130	30
Bromochloromethane	ND	1.0	106	109	2.8				70 - 130	30
Bromodichloromethane	ND	0.50	105	108	2.8				70 - 130	30
Bromoform	ND	1.0	97	98	1.0				70 - 130	30
Bromomethane	ND	1.0	122	129	5.6				70 - 130	30
Carbon Disulfide	ND	1.0	108	106	1.9				70 - 130	30
Carbon tetrachloride	ND	1.0	111	111	0.0				70 - 130	30
Chlorobenzene	ND	1.0	108	108	0.0				70 - 130	30
Chloroethane	ND	1.0	115	113	1.8				70 - 130	30
Chloroform	ND	1.0	109	111	1.8				70 - 130	30
Chloromethane	ND	1.0	106	105	0.9				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	110	107	2.8				70 - 130	30

QA/QC Data

SDG I.D.: GCO20484

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
cis-1,3-Dichloropropene	ND	0.40	105	108	2.8				70 - 130	30
Dibromochloromethane	ND	0.50	105	106	0.9				70 - 130	30
Dibromomethane	ND	1.0	107	110	2.8				70 - 130	30
Dichlorodifluoromethane	ND	1.0	129	125	3.1				70 - 130	30
Ethylbenzene	ND	1.0	113	112	0.9				70 - 130	30
Hexachlorobutadiene	ND	0.40	108	107	0.9				70 - 130	30
Isopropylbenzene	ND	1.0	118	115	2.6				70 - 130	30
m&p-Xylene	ND	1.0	113	112	0.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	82	86	4.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	104	5.9				70 - 130	30
Methylene chloride	ND	1.0	102	103	1.0				70 - 130	30
Naphthalene	ND	1.0	98	101	3.0				70 - 130	30
n-Butylbenzene	ND	1.0	116	117	0.9				70 - 130	30
n-Propylbenzene	ND	1.0	117	113	3.5				70 - 130	30
o-Xylene	ND	1.0	110	109	0.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	116	116	0.0				70 - 130	30
sec-Butylbenzene	ND	1.0	116	115	0.9				70 - 130	30
Styrene	ND	1.0	112	112	0.0				70 - 130	30
tert-Butylbenzene	ND	1.0	117	116	0.9				70 - 130	30
Tetrachloroethene	ND	1.0	114	110	3.6				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	92	98	6.3				70 - 130	30
Toluene	ND	1.0	110	110	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	112	113	0.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	102	105	2.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	75	73	2.7				70 - 130	30
Trichloroethene	ND	1.0	111	110	0.9				70 - 130	30
Trichlorofluoromethane	ND	1.0	119	117	1.7				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	107	108	0.9				70 - 130	30
Vinyl chloride	ND	1.0	118	114	3.4				70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	99	99	0.0				70 - 130	30
% Bromofluorobenzene	94	%	98	98	0.0				70 - 130	30
% Dibromofluoromethane	103	%	97	98	1.0				70 - 130	30
% Toluene-d8	95	%	101	100	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

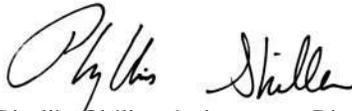
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


 Phyllis Shiller, Laboratory Director
 June 16, 2023

Friday, June 16, 2023

Criteria: CT: GWP, SWP

State: CT

Sample Criteria Exceedances Report

GCO20484 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO20484	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20484	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20485	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20485	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20485	AS-WM	Arsenic	CT / RSR GWPC (ug/l) / Inorganics	0.055	0.004	0.05	0.05	mg/L
CO20485	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.055	0.004	0.004	0.004	mg/L
CO20486	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20486	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20486	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/l
CO20487	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20487	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20488	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20488	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20488	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/l
CO20488	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.009	0.004	0.004	0.004	mg/L
CO20489	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20489	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20489	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/l
CO20490	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20490	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20491	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20491	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20491	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/l
CO20492	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20492	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20493	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20493	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CO20493	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	40	3	3	ug/l
CO20494	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CO20494	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO20484-CO20494

Sampling Date(s): 6/6/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>YPH and EPH methods only:</u> Was the YPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: SVOA Narration, SVOASIM Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Friday, June 16, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 16, 2023

SDG I.D.: GCO20484

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list.

8270 Semi-volatile Organics:

Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL2 06/12/23-1

Jeff Bucko, Chemist 06/12/23

CO20484 (1X), CO20485 (1X), CO20486 (1X), CO20487 (1X), CO20488 (1X), CO20489 (1X), CO20490 (1X), CO20491 (1X), CO20492 (1X)

The initial calibration (ETPH504I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (612A003) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 681701 (CO20485)

CO20484, CO20485, CO20486, CO20487, CO20488, CO20489, CO20490, CO20491, CO20492

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/07/23 13:14

Paul Marshall, Chemist 06/07/23

CO20484, CO20485, CO20486, CO20488

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 06/07/23 14:07

Alexander Latka, Chemist 06/07/23



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Certification Report

June 16, 2023

SDG I.D.: GCO20484

Mercury Narration

CO20489, CO20490, CO20491

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 681088 (CO20636)

CO20484, CO20485, CO20486, CO20488, CO20489, CO20490, CO20491

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 06/09/23 12:05

Cindy Pearce, Chemist 06/09/23

CO20487

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

ARCOS 06/09/23 13:01

Cindy Pearce, Tina Hall, Chemist 06/09/23

CO20485, CO20486, CO20488, CO20489, CO20490, CO20491

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 06/09/23 11:27

Tina Hall, Chemist 06/09/23

CO20484

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):



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Certification Report

June 16, 2023

SDG I.D.: GCO20484

ICP Metals Narration

Batch 681171 (CO19138)

CO20484

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 681393 (CO20487)

CO20485, CO20486, CO20487, CO20488, CO20489, CO20490, CO20491

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ICPMS 06/08/23 14:20 Cindy Pearce, Chemist 06/08/23

CO20484, CO20485, CO20486, CO20488, CO20490, CO20491

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following samples did not meet internal standard criteria: None.

QC (Site Specific):

Batch 681169 (CO20484)

CO20484, CO20485, CO20486, CO20488, CO20490, CO20491

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD1 06/09/23-1 Saadia Chudary, Chemist 06/09/23

CO20485 (1X), CO20486 (1X), CO20488 (1X), CO20489 (1X), CO20490 (1X), CO20491 (1X)

The initial calibration (PC0523AI) RSD for the compound list was less than 20% except for the following compounds: None.



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PCB Narration

The initial calibration (PC0523BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 06/08/23-1 Saadia Chudary, Chemist 06/08/23

CO20484 (1X)

The initial calibration (PC0607AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0607BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:

Samples: CO20484

Preceding CC 608B020 - None.

Succeeding CC 608B033 - DCBP SURR -17%L (15%)

QC (Batch Specific):

Batch 681194 (CO18404)

CO20484

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Batch 681402 (CO20485)

CO20485, CO20486, CO20488, CO20489, CO20490, CO20491

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

SVOA Narration



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SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 681702 (Samples: CO20485, CO20486, CO20488): -----

The QC recoveries for one or more analytes is below the method criteria. A low bias for these analytes is likely. (3,3'-Dichlorobenzidine, Aniline, Benzidine)

The QC recoveries for one or more analytes is below the lower range. A low bias for these analytes is possible. (3-Nitroaniline, 4-Chloroaniline, Bis(2-chloroethoxy)methane)

The LCS recovery is below the method criteria. A low bias is possible. (1,2-Diphenylhydrazine, Carbazole)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (1,2-Diphenylhydrazine, 2-Nitroaniline, 3-Nitroaniline, Benzoic acid, Benzyl butyl phthalate, Bis(2-chloroethoxy)methane, Carbazole)

QC Batch 681883 (Samples: CO20490, CO20491): -----

The LCSD recovery is below the method criteria. A low bias is possible. (3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline, Aniline, Benzidine, Bis(2-chloroethoxy)methane)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2-Nitroaniline, 3-Nitroaniline, 4-Chloroaniline, Aniline, Benzoic acid, Bis(2-chloroethoxy)methane, Carbazole, N-Nitrosodiphenylamine)

Instrument:

CHEM06 06/14/23-1 Keith Aloisa, Chemist 06/14/23

CO20490 (1X), CO20491 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0530):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.080 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0614_06-6_SPLIT_0530):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

98% of target compounds met criteria.

The following compounds did not meet % deviation criteria: N-Nitrosodimethylamine 32%L (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.091 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM29 06/13/23-1 Matt Richard, Chemist 06/13/23

CO20485 (1X), CO20486 (1X), CO20488 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and



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SVOA Narration

were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM29/29_SPLIT_0609):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.042 (0.05), 2-Nitrophenol 0.029 (0.1), 4-Chloro-3-methylphenol 0.181 (0.2)

The following compounds did not meet a minimum response factors: % 2,4,6-Tribromophenol 0.042 (0.05), 2-Nitrophenol 0.029 (0.05)

Continuing Calibration Verification (CHEM29/0613_06-29_SPLIT_0609):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: % 2,4,6-Tribromophenol 0.045 (0.05), 2-Nitrophenol 0.035 (0.1)

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 681702 (CO19742)

CO20485, CO20486, CO20488

All LCS recoveries were within 40 - 140 with the following exceptions: 1,2-Diphenylhydrazine(20%), 3,3'-Dichlorobenzidine(<10%), 3-Nitroaniline(22%), 4-Chloroaniline(24%), Aniline(<10%), Benzidine(<10%), Bis(2-chloroethoxy)methane(12%), Carbazole(14%)

All LCSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), 3-Nitroaniline(31%), 4-Chloroaniline(28%), Aniline(22%), Benzidine(<10%), Bis(2-chloroethoxy)methane(22%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: 1,2-Diphenylhydrazine(114.9%), 2-Nitroaniline(36.3%), 3-Nitroaniline(34.0%), Benzoic acid(32.6%), Benzyl butyl phthalate(31.8%), Bis(2-chloroethoxy)methane(58.8%), Carbazole(120.0%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 681883 (CO23176)

CO20490, CO20491

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), 3-Nitroaniline(31%), 4-Chloroaniline(18%), Aniline(12%), Benzidine(<10%), Bis(2-chloroethoxy)methane(39%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: 2-Nitroaniline(36.5%), 3-Nitroaniline(97.5%), 4-Chloroaniline(118.2%), Aniline(130.4%), Benzoic acid(28.6%), Bis(2-chloroethoxy)methane(73.2%), Carbazole(46.2%), N-Nitrosodiphenylamine(34.3%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration



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SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 681702 (Samples: CO20485, CO20486, CO20488): -----

The LCS/LCSD is below the lower range. A low bias for this analyte is possible. (Pyridine)

The LCS recovery is below the lower range. A low bias is possible. (Acenaphthylene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Acenaphthylene, Benzo(a)pyrene)

QC Batch 681883 (Samples: CO20490, CO20491): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Acenaphthylene, Benzo(a)pyrene)

QC Batch 681884 (Samples: CO20484, CO20487, CO20489, CO20492): -----

The LCSD recovery is above the upper range for one analyte that was not reported in the sample(s), therefore no significant bias is suspected. (Benz(a)anthracene)

Instrument:

CHEM27 06/13/23-1 Adam Werner, Chemist 06/13/23

CO20485 (1X), CO20486 (1X), CO20488 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_SIM18_0425):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0613_03-27_SIM18_0425):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM27 06/14/23-1 Keith Aloisa, Chemist 06/14/23

CO20490 (1X), CO20491 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_SIM18_0425):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.



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Continuing Calibration Verification (CHEM27/0614_03-27_SIM18_0425):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM69 06/13/23-1 Adam Werner, Chemist 06/13/23

CO20484 (1X), CO20487 (1X), CO20489 (1X, 1000X), CO20492 (1X)

Initial Calibration Evaluation (CHEM69/69_BNSIM18_0602):

100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM69/0613_03-69_BNSIM18_0602):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
95% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Benz(a)anthracene 34%H (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 681702 (CO19742)

CO20485, CO20486, CO20488

All LCS recoveries were within 30 - 130 with the following exceptions: Acenaphthylene(26%), Pyridine(16%)
All LCSD recoveries were within 30 - 130 with the following exceptions: Pyridine(19%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: Acenaphthylene(76.2%), Benzo(a)pyrene(28.0%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 681883 (CO23176)

CO20490, CO20491

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: Acenaphthylene(25.2%), Benzo(a)pyrene(29.4%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 681884 (CO20489)

CO20484, CO20487, CO20489, CO20492

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: Benz(a)anthracene(138%)



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SDG I.D.: GCO20484

SVOASIM Narration

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM17 06/06/23-2 Michael Hahn, Chemist 06/06/23

CO20484 (1X), CO20485 (1X), CO20486 (1X), CO20487 (1X), CO20488 (1X), CO20489 (1X), CO20490 (1X), CO20491 (1X), CO20492 (1X), CO20493 (1X), CO20494 (1X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-060523):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Naphthalene 23% (20%), trans-1,4-dichloro-2-butene 22% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.048 (0.1), 4-Methyl-2-pentanone 0.068 (0.1), Acetone 0.024 (0.1), Acrylonitrile 0.031 (0.05), Bromoform 0.096 (0.1), Methyl ethyl ketone 0.041 (0.1), Tetrahydrofuran (THF) 0.024 (0.05)

The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.048 (0.05), Acetone 0.024 (0.05), Acrylonitrile 0.031 (0.05), Methyl ethyl ketone 0.041 (0.05), Tetrahydrofuran (THF) 0.024 (0.05)

Continuing Calibration Verification (CHEM17/0606_15-VT-060523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.

The following compounds did not meet % deviation criteria: trans-1,4-dichloro-2-butene 36%L (30%)

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.037 (0.05), 2-Hexanone 0.044 (0.05), Acetone 0.025 (0.05), Acrylonitrile 0.032 (0.05), Methyl ethyl ketone 0.038 (0.05), Tetrahydrofuran (THF) 0.022 (0.05), trans-1,4-dichloro-2-butene 0.047 (0.05)

QC (Batch Specific):

Batch 681159 (CO20494) CHEM17 6/6/2023-2

CO20484(1X), CO20485(1X), CO20486(1X), CO20487(1X), CO20488(1X), CO20489(1X), CO20490(1X), CO20491(1X), CO20492(1X), CO20493(1X), CO20494(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration



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SDG I.D.: GCO20484

The samples were received at 2.0C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: makrina@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-1102

Cooler: Yes No
 IPK ICE

Temp: 20 C Pg 1 of 1

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: On File

Customer: Tighe & Bond
 Address: 213 Court Street, Suite 1100
 Middletown, CT 06457

Project: Brainard Airport
 Report to: James Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe & Bond Westfield
 Quote #: DAS Pricing

Project P.O.: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: *Jan Adomut* Date: 6/6/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X = _____ (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	CT/ETPH	VOCs 8260	1,4-Dioxane 8260	SVOCs 8270	PAHs 8270	Total RCRA 8 Metals	Total RSR 15 Metals	Total Lead	PCBs 8082	GL Amber 1000ml [X] As is	40 ml VOA Vial [X] HCl	PL - HNO ₃ 250ml
20484	TMW-2	GW	6/6/23	0755	X	X	X	X	X	X	X	X	X	4	3	1
20485	TMW-7	GW	6/6/23	1110	X	X	X	X	X	X	X	X	X	4	3	1
20486	TMW-8	GW	6/6/23	1200	X	X	X	X	X	X	X	X	X	4	3	1
20487	TMW-10	GW	6/6/23	0905	X	X	X	X	X	X	X	X	X	3	3	1
20488	TMW-12	GW	6/6/23	1245	X	X	X	X	X	X	X	X	X	4	3	1
20489	TMW-16	GW	6/6/23	1005	X	X	X	X	X	X	X	X	X	4	3	1
20490	MW-2	GW	6/6/23	1450	X	X	X	X	X	X	X	X	X	4	3	1
20491	OW-1	GW	6/6/23	1345	X	X	X	X	X	X	X	X	X	4	3	1
20492	DUP-2	GW	6/6/23	0906	X	X	X	X	X	X	X	X	X	3	3	
20493	DUP-3	GW	6/6/23	1246	X	X	X	X	X	X	X	X	X	3		
20494	Trip Blank	GW	6/6/23		X	X	X	X	X	X	X	X	X	2		

Relinquished by: <i>Jan Adomut</i>	Accepted by: <i>[Signature]</i>	Date: 6/6/23	Time: 1510	RI <input type="checkbox"/> RES DEC <input type="checkbox"/> I/C DEC	CT <input checked="" type="checkbox"/> RCP Cert <input checked="" type="checkbox"/> GWPC <input checked="" type="checkbox"/> SWPC <input type="checkbox"/> GA PMC <input type="checkbox"/> GB PMC <input type="checkbox"/> SWPC <input type="checkbox"/> RES DEC <input type="checkbox"/> I/C DEC	MA <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> SW Protection	Data Format <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUiS <input checked="" type="checkbox"/> EnviroData Data Package <input type="checkbox"/> Tier II Checklist* <input type="checkbox"/> Full Data Package* <input checked="" type="checkbox"/> Phoenix Std <input type="checkbox"/> Other
Comments, Special Requirements or Regulations:		Turnaround Time: <input type="checkbox"/> 1 Day* <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Days* <input type="checkbox"/> Other <input type="checkbox"/> 3 Days* <input type="checkbox"/> 4 Days* <input type="checkbox"/> 5 Days*		<input type="checkbox"/> GA Leachability <input type="checkbox"/> GB Leachability <input type="checkbox"/> GA -GW Objectives <input type="checkbox"/> GB -GW Objectives <input type="checkbox"/> Other	State where samples were collected: CT		* SURCHARGE APPLIES

*MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.

* SURCHARGES MAY APPLY



Monday, June 19, 2023

Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: BRAINARD AIRPORT
SDG ID: GCO21852
Sample ID#s: CO21852 - CO21861

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



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Sample Id Cross Reference

June 19, 2023

SDG I.D.: GCO21852

Project ID: BRAINARD AIRPORT

Client Id	Lab Id	Matrix
TMW-1	CO21852	GROUND WATER
TMW-4	CO21853	GROUND WATER
TMW-5	CO21854	GROUND WATER
TMW-9	CO21855	GROUND WATER
TMW-11	CO21856	GROUND WATER
TMW-21	CO21857	GROUND WATER
MW-1	CO21858	GROUND WATER
DUP-4	CO21859	GROUND WATER
DUP-5	CO21860	GROUND WATER
TRIP BLANK	CO21861	WATER



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/07/23
 06/07/23

Time

13:15
 16:38

Laboratory Data

SDG ID: GCO21852
 Phoenix ID: CO21852

Project ID: BRAINARD AIRPORT
 Client ID: TMW-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Extraction of ETPH	Completed				06/13/23	X/MQ	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/13/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/10/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/14/23	JRB	CTETPH
Identification	ND		mg/L	1	06/14/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	79		%	1	06/14/23	JRB	50 - 150 %
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Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/08/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/08/23	MH	SW8260C
Acrylonitrile	ND	0.5	ug/L	1	06/08/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/08/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/08/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/08/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	06/08/23	MH	70 - 130 %
% Bromofluorobenzene	91		%	1	06/08/23	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	06/08/23	MH	70 - 130 %
% Toluene-d8	95		%	1	06/08/23	MH	70 - 130 %
<u>1,4-dioxane</u>							
1,4-dioxane	ND	100	ug/l	1	06/08/23	MH	SW8260C
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/15/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	06/15/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Acetophenone	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Aniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Benzidine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Benzoic acid	ND	47	ug/L	1	06/15/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Carbazole	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Dibenzofuran	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Hexachloroethane	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Isophorone	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
Phenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	47		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	42		%	1	06/15/23	KCA	30 - 130 %
% 2-Fluorophenol	36		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	37		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	39		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	46		%	1	06/15/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol	58		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	47		%	1	06/15/23	KCA	30 - 130 %
% 2-Fluorophenol	42		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	54		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	55		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	53		%	1	06/15/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/07/23
 06/07/23

Time

14:20
 16:38

Laboratory Data

SDG ID: GCO21852
 Phoenix ID: CO21853

Project ID: BRAINARD AIRPORT
 Client ID: TMW-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Arsenic	0.012	0.004	mg/L	1	06/15/23	CPP	SW6010D
Barium	0.286	0.002	mg/L	1	06/15/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/08/23	AL1	SW7470A
Nickel	0.010	0.001	mg/L	1	06/15/23	CPP	SW6010D
Lead	0.002	0.001	mg/L	1	06/15/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/15/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/15/23	CPP	SW6010D
Zinc	0.010	0.004	mg/L	1	06/15/23	CPP	SW6010D
Extraction of ETPH	Completed				06/13/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/08/23	ZT/ZT	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/13/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/10/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	06/14/23	JRB	CTETPH
Identification	ND		mg/L	1	06/14/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	72		%	1	06/14/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	55		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	50		%	1	06/09/23	SC	30 - 150 %
% TCMX	60		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	62		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/08/23	MH	SW8260C
Acrylonitrile	ND	0.5	ug/L	1	06/08/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/08/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/08/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	06/08/23	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	06/08/23	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	06/08/23	MH	70 - 130 %
% Toluene-d8	99		%	1	06/08/23	MH	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/15/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	06/15/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Acetophenone	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Aniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Benzidine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Benzoic acid	ND	47	ug/L	1	06/15/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Carbazole	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Dibenzofuran	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Hexachloroethane	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Isophorone	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
Phenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	69		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	58		%	1	06/15/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	52		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	57		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	54		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	65		%	1	06/15/23	KCA	30 - 130 %

Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)

QA/QC Surrogates

% 2,4,6-Tribromophenol	86		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	60		%	1	06/15/23	KCA	30 - 130 %
% 2-Fluorophenol	58		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	75		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	74		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	72		%	1	06/15/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: LB
Analyzed by: see "By" below

Date

06/07/23 9:55
06/07/23 16:38

Laboratory Data

SDG ID: GCO21852
Phoenix ID: CO21854

Project ID: BRAINARD AIRPORT
Client ID: TMW-5

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Silver, Arsenic, Barium, Cadmium, Chromium, Mercury, Lead, Selenium, and various extraction/digestion processes.

TPH by GC (Extractable Products)

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include Ext. Petroleum H.C. (C9-C36) and Identification.

QA/QC Surrogates

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Row includes % Terphenyl (surr).

Volatiles

Table with 8 columns: Parameter, Result, RL/PQL, Units, Dilution, Date/Time, By, Reference. Rows include 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene.

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/08/23	MH	SW8260C
Acrylonitrile	ND	0.5	ug/L	1	06/08/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/08/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
m&p-Xylene	1.7	1.0	ug/L	1	06/08/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C

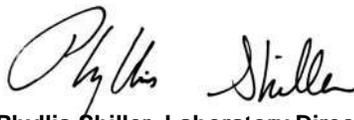
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
p-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/08/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Total Xylenes	1.7	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	06/08/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/08/23	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	06/08/23	MH	70 - 130 %
% Toluene-d8	99		%	1	06/08/23	MH	70 - 130 %
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/14/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/14/23	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	67		%	1	06/14/23	KCA	30 - 130 %
% Nitrobenzene-d5	57		%	1	06/14/23	KCA	30 - 130 %
% Terphenyl-d14	83		%	1	06/14/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/07/23
 06/07/23

Time

10:50
 16:38

Laboratory Data

SDG ID: GCO21852
 Phoenix ID: CO21855

Project ID: BRAINARD AIRPORT
 Client ID: TMW-9

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Barium	0.015	0.002	mg/L	1	06/15/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/08/23	AL1	SW7470A
Nickel	0.006	0.001	mg/L	1	06/15/23	CPP	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/15/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/15/23	CPP	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Extraction of ETPH	Completed				06/13/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/08/23	ZT/ZT	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/13/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/10/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/14/23	JRB	CTETPH
Identification	ND		mg/L	1	06/14/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	71		%	1	06/14/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	98		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	91		%	1	06/09/23	SC	30 - 150 %
% TCMX	93		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	96		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/08/23	MH	SW8260C
Acrylonitrile	ND	0.5	ug/L	1	06/08/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/08/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/08/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	101		%	1	06/08/23	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	06/08/23	MH	70 - 130 %
% Dibromofluoromethane	91		%	1	06/08/23	MH	70 - 130 %
% Toluene-d8	99		%	1	06/08/23	MH	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	06/15/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2-Chlorophenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2-Nitrophenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.6	ug/L	1	06/15/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
4-Nitrophenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
Acetophenone	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Aniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Benzidine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Benzoic acid	ND	48	ug/L	1	06/15/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
Carbazole	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Dibenzofuran	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Hexachloroethane	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
Isophorone	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
Phenol	ND	0.96	ug/L	1	06/15/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	58		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	51		%	1	06/15/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	41		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	45		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	45		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	62		%	1	06/15/23	KCA	30 - 130 %

Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Anthracene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Chrysene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluorene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyrene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyridine	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)

QA/QC Surrogates

% 2,4,6-Tribromophenol	78		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	56		%	1	06/15/23	KCA	30 - 130 %
% 2-Fluorophenol	52		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	78		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	69		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	65		%	1	06/15/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/07/23
 06/07/23

Time

12:30
 16:38

Laboratory Data

SDG ID: GCO21852
 Phoenix ID: CO21856

Project ID: BRAINARD AIRPORT
 Client ID: TMW-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Barium	0.026	0.002	mg/L	1	06/15/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Chromium	0.003	0.001	mg/L	1	06/15/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/08/23	AL1	SW7470A
Nickel	0.002	0.001	mg/L	1	06/15/23	CPP	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/15/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/15/23	CPP	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Extraction of ETPH	Completed				06/13/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/08/23	ZT/ZT	SW7470A
PCB Extraction	Completed				06/08/23	S/S	SW3510C
Semi-Volatile Extraction	Completed				06/13/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/10/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/14/23	JRB	CTETPH
Identification	ND		mg/L	1	06/14/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	79		%	1	06/14/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/09/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	81		%	1	06/09/23	SC	30 - 150 %
% DCBP (Confirmation)	73		%	1	06/09/23	SC	30 - 150 %
% TCMX	68		%	1	06/09/23	SC	30 - 150 %
% TCMX (Confirmation)	70		%	1	06/09/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/08/23	MH	SW8260C
Acrylonitrile	ND	0.5	ug/L	1	06/08/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/08/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/08/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	06/08/23	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/08/23	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	06/08/23	MH	70 - 130 %
% Toluene-d8	99		%	1	06/08/23	MH	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/15/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	06/15/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Acetophenone	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Aniline	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Benzidine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Benzoic acid	ND	47	ug/L	1	06/15/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Carbazole	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Dibenzofuran	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Hexachloroethane	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
Isophorone	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	06/15/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
Phenol	ND	0.94	ug/L	1	06/15/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	30		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	41		%	1	06/15/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	<10		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	42		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	<10		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	45		%	1	06/15/23	KCA	30 - 130 %

Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)

QA/QC Surrogates

% 2,4,6-Tribromophenol	42		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	45		%	1	06/15/23	KCA	30 - 130 %
% 2-Fluorophenol	<10		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	53		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	<10		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	50		%	1	06/15/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

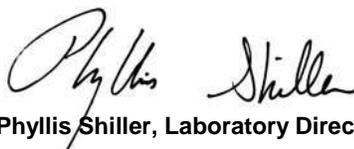
Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:

Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/07/23
 06/07/23

Time

8:35
 16:38

Laboratory Data

SDG ID: GCO21852
 Phoenix ID: CO21857

Project ID: BRAINARD AIRPORT
 Client ID: TMW-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Barium	0.063	0.002	mg/L	1	06/15/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/08/23	AL1	SW7470A
Lead	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/15/23	CPP	SW6010D
Extraction of ETPH	Completed				06/13/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/08/23	ZT/ZT	SW7470A
PCB Extraction	Completed				06/12/23	I/I	SW3510C
Total Metals Digestion	Completed				06/10/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	06/14/23	JRB	CTETPH
Identification	ND		mg/L	1	06/14/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	87		%	1	06/14/23	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/13/23	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1262	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	92		%	1	06/13/23	SC	30 - 150 %
% DCBP (Confirmation)	88		%	1	06/13/23	SC	30 - 150 %
% TCMX	73		%	1	06/13/23	SC	30 - 150 %
% TCMX (Confirmation)	79		%	1	06/13/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/08/23	MH	SW8260C
Acrylonitrile	ND	0.5	ug/L	1	06/08/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/08/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C

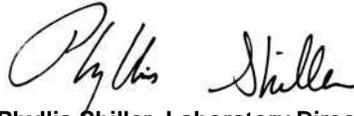
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/08/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	06/08/23	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	06/08/23	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	06/08/23	MH	70 - 130 %
% Toluene-d8	94		%	1	06/08/23	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/07/23
 06/07/23

Time

15:25
 16:38

Laboratory Data

SDG ID: GCO21852
 Phoenix ID: CO21858

Project ID: BRAINARD AIRPORT
 Client ID: MW-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Barium	0.021	0.002	mg/L	1	06/15/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Chromium	0.012	0.001	mg/L	1	06/15/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/08/23	AL1	SW7470A
Nickel	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/15/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/15/23	CPP	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Extraction of ETPH	Completed				06/14/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/08/23	ZT/ZT	SW7470A
PCB Extraction	Completed				06/12/23	I/I	SW3510C
Semi-Volatile Extraction	Completed				06/13/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/10/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.068	mg/L	1	06/15/23	JRB	CTETPH
Identification	ND		mg/L	1	06/15/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	80		%	1	06/15/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	73		%	1	06/13/23	SC	30 - 150 %
% DCBP (Confirmation)	68		%	1	06/13/23	SC	30 - 150 %
% TCMX	83		%	1	06/13/23	SC	30 - 150 %
% TCMX (Confirmation)	82		%	1	06/13/23	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Acetone	ND	25	ug/L	1	06/08/23	MH	SW8260C
Acrylonitrile	ND	0.5	ug/L	1	06/08/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/08/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/08/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	06/08/23	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	06/08/23	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	06/08/23	MH	70 - 130 %
% Toluene-d8	99		%	1	06/08/23	MH	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.4	ug/L	1	06/15/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	06/15/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichlorobenzene	ND	2.5	ug/L	1	06/15/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	06/15/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
2-Chlorophenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
2-Nitrophenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.8	ug/L	1	06/15/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
4-Nitrophenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
Acetophenone	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Aniline	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Benzidine	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Benzoic acid	ND	49	ug/L	1	06/15/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
Carbazole	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Dibenzofuran	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Hexachloroethane	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
Isophorone	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	06/15/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.5	ug/L	1	06/15/23	KCA	SW8270D
Phenol	ND	0.98	ug/L	1	06/15/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	39		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	39		%	1	06/15/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	35		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	35		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	38		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	47		%	1	06/15/23	KCA	30 - 130 %

Semivolatiles (SIM)

2-Methylnaphthalene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyridine	ND	0.49	ug/L	1	06/15/23	KCA	SW8270D (SIM)

QA/QC Surrogates

% 2,4,6-Tribromophenol	58		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	45		%	1	06/15/23	KCA	30 - 130 %
% 2-Fluorophenol	43		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	57		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	55		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	54		%	1	06/15/23	KCA	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/07/23
 06/07/23

Time

10:51
 16:38

Laboratory Data

SDG ID: GCO21852
 Phoenix ID: CO21859

Project ID: BRAINARD AIRPORT
 Client ID: DUP-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Barium	0.015	0.002	mg/L	1	06/15/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/08/23	AL1	SW7470A
Nickel	0.006	0.001	mg/L	1	06/15/23	CPP	SW6010D
Lead	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/15/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/15/23	CPP	SW6010D
Zinc	< 0.004	0.004	mg/L	1	06/15/23	CPP	SW6010D
Extraction of ETPH	Completed				06/13/23	X/MQ	SW3510C/SW3520C
Mercury Digestion	Completed				06/08/23	ZT/ZT	SW7470A
PCB Extraction	Completed				06/12/23	I/I	SW3510C
Semi-Volatile Extraction	Completed				06/13/23	X/MQ	SW3520C
Total Metals Digestion	Completed				06/10/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	06/14/23	JRB	CTETPH
Identification	ND		mg/L	1	06/14/23	JRB	CTETPH

QA/QC Surrogates

% Terphenyl (surr)	72		%	1	06/14/23	JRB	50 - 150 %
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1221	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1232	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1242	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1248	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1254	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1260	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1262	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
PCB-1268	ND	0.47	ug/L	1	06/13/23	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	113		%	1	06/13/23	SC	30 - 150 %
% DCBP (Confirmation)	107		%	1	06/13/23	SC	30 - 150 %
% TCMX	82		%	1	06/13/23	SC	30 - 150 %
% TCMX (Confirmation)	87		%	1	06/13/23	SC	30 - 150 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/15/23	KCA	SW8270D
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
2,2'-Oxybis(1-Chloropropane)	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2,4,5-Trichlorophenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
2,4,6-Trichlorophenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dichlorophenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dimethylphenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrophenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2-Chlorophenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
2-Methylphenol (o-cresol)	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
2-Nitrophenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.5	ug/L	1	06/15/23	KCA	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
4-Chloro-3-methylphenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
4-Chlorophenyl phenyl ether	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
4-Nitrophenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
Acetophenone	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Aniline	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Benzidine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzoic acid	ND	48	ug/L	1	06/15/23	KCA	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-chloroethyl)ether	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
Bis(2-ethylhexyl)phthalate	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
Carbazole	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Dibenzofuran	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Hexachloroethane	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
Isophorone	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	06/15/23	KCA	SW8270D
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/15/23	KCA	SW8270D
Phenol	ND	0.95	ug/L	1	06/15/23	KCA	SW8270D
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	84		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	67		%	1	06/15/23	KCA	30 - 130 %
% 2-Fluorophenol	67		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	65		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	63		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	84		%	1	06/15/23	KCA	30 - 130 %
<u>Semivolatiles (SIM)</u>							
2-Methylnaphthalene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Anthracene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.46	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Chrysene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluoranthene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Fluorene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorobutadiene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Naphthalene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Nitrobenzene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pentachlorophenol	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyrene	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)
Pyridine	ND	0.48	ug/L	1	06/15/23	KCA	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>QA/QC Surrogates</u>							
% 2,4,6-Tribromophenol	106		%	1	06/15/23	KCA	15 - 110 %
% 2-Fluorobiphenyl	73		%	1	06/15/23	KCA	30 - 130 %
% 2-Fluorophenol	73		%	1	06/15/23	KCA	15 - 110 %
% Nitrobenzene-d5	98		%	1	06/15/23	KCA	30 - 130 %
% Phenol-d5	95		%	1	06/15/23	KCA	15 - 110 %
% Terphenyl-d14	89		%	1	06/15/23	KCA	30 - 130 %

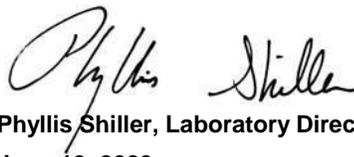
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
 Tighe & Bond
 213 Court St, Suite 1100
 Middletown, CT 06457

Sample Information

Matrix: GROUND WATER
 Location Code: TIGHE-DAS
 Rush Request: Standard
 P.O.#: 12-5182-001

Custody Information

Collected by: IA
 Received by: LB
 Analyzed by: see "By" below

Date

06/07/23
 06/07/23

Time

14:21
 16:38

Laboratory Data

SDG ID: GCO21852
 Phoenix ID: CO21860

Project ID: BRAINARD AIRPORT
 Client ID: DUP-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Arsenic	0.012	0.004	mg/L	1	06/15/23	CPP	SW6010D
Barium	0.287	0.002	mg/L	1	06/15/23	CPP	SW6010D
Beryllium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Cadmium	0.002	0.001	mg/L	1	06/15/23	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	06/15/23	CPP	SW6010D
Copper	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	06/08/23	AL1	SW7470A
Nickel	0.009	0.001	mg/L	1	06/15/23	CPP	SW6010D
Lead	0.003	0.001	mg/L	1	06/15/23	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/15/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	06/15/23	CPP	SW6010D
Thallium	< 0.0005	0.0005	mg/L	5	06/08/23	CPP	SW6020B
Vanadium	< 0.002	0.002	mg/L	1	06/15/23	CPP	SW6010D
Zinc	0.012	0.004	mg/L	1	06/15/23	CPP	SW6010D
Mercury Digestion	Completed				06/08/23	ZT/ZT	SW7470A
Total Metals Digestion	Completed				06/10/23	AG	SW3010A
Total Metals Digestion MS	Completed				06/07/23	AG	SW3010A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 19, 2023

FOR: Attn: James Olsen
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: WATER
Location Code: TIGHE-DAS
Rush Request: Standard
P.O.#: 12-5182-001

Custody Information

Collected by: IA
Received by: LB
Analyzed by: see "By" below

Date

06/07/23
06/07/23

Time

16:38

Laboratory Data

SDG ID: GCO21852
Phoenix ID: CO21861

Project ID: BRAINARD AIRPORT
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	06/08/23	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/08/23	MH	SW8260C
Acrylonitrile	ND	0.5	ug/L	1	06/08/23	MH	SW8260C
Benzene	ND	0.70	ug/L	1	06/08/23	MH	SW8260C
Bromobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	06/08/23	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Styrene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/08/23	MH	SW8260C
Toluene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/08/23	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/08/23	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	06/08/23	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	06/08/23	MH	70 - 130 %
% Bromofluorobenzene	93		%	1	06/08/23	MH	70 - 130 %
% Dibromofluoromethane	94		%	1	06/08/23	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	90		%	1	06/08/23	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

June 19, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 19, 2023

QA/QC Data

SDG I.D.: GCO21852

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 681312 (mg/L), QC Sample No: CO22285 (CO21853, CO21854, CO21855, CO21856, CO21857, CO21858, CO21859, CO21860)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	95.9			108			80 - 120	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QA/QC Batch 681747 (mg/L), QC Sample No: CO21852 (CO21852, CO21853, CO21854, CO21855, CO21856, CO21857, CO21858, CO21859)

ICP Metals - Aqueous

Antimony	BRL	0.005	<0.005	<0.005	NC	101	101	0.0	99.3			80 - 120	20
Arsenic	BRL	0.004	0.006	0.004	NC	102	103	1.0	100			80 - 120	20
Barium	BRL	0.002	0.038	0.038	0	103	103	0.0	101			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	107	107	0.0	106			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	107	107	0.0	104			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	103	103	0.0	101			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	103	103	0.0	102			80 - 120	20
Lead	BRL	0.001	<0.001	<0.001	NC	104	105	1.0	102			80 - 120	20
Nickel	BRL	0.001	0.007	0.008	13.3	105	105	0.0	103			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	98.3	98.4	0.1	97.3			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	102	103	1.0	101			80 - 120	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	102	102	0.0	101			80 - 120	20
Zinc	BRL	0.004	0.012	0.012	NC	102	101	1.0	99.7			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 681748 (mg/L), QC Sample No: CO22778 (CO21860)

ICP Metals - Aqueous

Antimony	BRL	0.005	<0.005	<0.005	NC	104	101	2.9	102			80 - 120	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	102	98.6	3.4	101			80 - 120	20
Barium	BRL	0.002	0.003	0.003	NC	104	100	3.9	102			80 - 120	20
Beryllium	BRL	0.001	<0.001	<0.001	NC	103	101	2.0	102			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	104	101	2.9	102			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	106	103	2.9	104			80 - 120	20
Copper	BRL	0.005	<0.005	<0.005	NC	106	103	2.9	106			80 - 120	20
Lead	BRL	0.001	<0.001	<0.001	NC	105	102	2.9	104			80 - 120	20
Nickel	BRL	0.001	<0.001	<0.001	NC	108	105	2.8	107			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	95.7	92.7	3.2	93.1			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	105	102	2.9	104			80 - 120	20
Vanadium	BRL	0.002	<0.002	<0.002	NC	104	101	2.9	103			80 - 120	20
Zinc	BRL	0.004	<0.004	<0.004	NC	102	98.8	3.2	101			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Data

SDG I.D.: GCO21852

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 681169 (mg/L), QC Sample No: CO20484 5X (CO21853, CO21855, CO21856, CO21858, CO21859, CO21860)

ICP MS Metals - Aqueous

Thallium	BRL	0.0005	<0.0005	<0.0005	NC	98.8	102	3.2	101			80 - 120	20
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Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102

QA/QC Report

June 19, 2023

QA/QC Data

SDG I.D.: GCO21852

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 682063 (mg/L), QC Sample No: CO21658 (CO21852, CO21853, CO21854, CO21855, CO21856, CO21857, CO21859)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	115	114	0.9				60 - 120	30
% Terphenyl (surr)	78	%	78	86	9.8				50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 682368 (mg/L), QC Sample No: CO21858 (CO21858)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	108	112	3.6				60 - 120	30
% Terphenyl (surr)	81	%	82	89	8.2				50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 681402 (ug/L), QC Sample No: CO20485 (CO21853, CO21855, CO21856)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.25	81	87	7.1				40 - 140	20
PCB-1221	ND	0.25							40 - 140	20
PCB-1232	ND	0.25							40 - 140	20
PCB-1242	ND	0.25							40 - 140	20
PCB-1248	ND	0.25							40 - 140	20
PCB-1254	ND	0.25							40 - 140	20
PCB-1260	ND	0.25	91	97	6.4				40 - 140	20
PCB-1262	ND	0.25							40 - 140	20
PCB-1268	ND	0.25							40 - 140	20
% DCBP (Surrogate Rec)	91	%	87	91	4.5				30 - 150	20
% DCBP (Surrogate Rec) (Confirm)	84	%	82	83	1.2				30 - 150	20
% TCMX (Surrogate Rec)	76	%	69	73	5.6				30 - 150	20
% TCMX (Surrogate Rec) (Confirm)	78	%	73	78	6.6				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 681945 (ug/L), QC Sample No: CO21857 (CO21857, CO21858, CO21859)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	0.25	62	77	21.6				40 - 140	20
PCB-1221	ND	0.25							40 - 140	20
PCB-1232	ND	0.25							40 - 140	20
PCB-1242	ND	0.25							40 - 140	20
PCB-1248	ND	0.25							40 - 140	20
PCB-1254	ND	0.25							40 - 140	20
PCB-1260	ND	0.25	73	89	19.8				40 - 140	20
PCB-1262	ND	0.25							40 - 140	20

QA/QC Data

SDG I.D.: GCO21852

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
	Blank	RL									
PCB-1268	ND	0.25							40 - 140	20	
% DCBP (Surrogate Rec)	18	%	87	96	9.8				30 - 150	20	s
% DCBP (Surrogate Rec) (Confirm	19	%	83	91	9.2				30 - 150	20	s
% TCMX (Surrogate Rec)	9	%	62	66	6.3				30 - 150	20	s
% TCMX (Surrogate Rec) (Confirm	8	%	68	73	7.1				30 - 150	20	s

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 682067 (ug/L), QC Sample No: CO24857 (CO21852, CO21853, CO21855, CO21856, CO21858, CO21859)

Semivolatiles - Ground Water

1,2,4,5-Tetrachlorobenzene	ND	3.5	77	91	16.7				40 - 140	20	
1,2,4-Trichlorobenzene	ND	3.5	78	94	18.6				40 - 140	20	
1,2-Dichlorobenzene	ND	1.0	72	88	20.0				40 - 140	20	
1,2-Diphenylhydrazine	ND	1.6	75	87	14.8				40 - 140	20	
1,3-Dichlorobenzene	ND	1.0	69	85	20.8				40 - 140	20	r
1,4-Dichlorobenzene	ND	1.0	69	86	21.9				40 - 140	20	r
2,2'-Oxybis(1-Chloropropane)	ND	1.0	68	77	12.4				40 - 140	20	
2,4,5-Trichlorophenol	ND	1.0	90	105	15.4				40 - 140	20	
2,4,6-Trichlorophenol	ND	1.0	89	101	12.6				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	83	96	14.5				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	87	103	16.8				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	74	96	25.9				30 - 130	20	r
2,4-Dinitrotoluene	ND	3.5	94	103	9.1				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	92	102	10.3				40 - 140	20	
2-Chloronaphthalene	ND	3.5	84	95	12.3				40 - 140	20	
2-Chlorophenol	ND	1.0	75	88	16.0				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	74	89	18.4				40 - 140	20	
2-Nitroaniline	ND	3.5	92	99	7.3				40 - 140	20	
2-Nitrophenol	ND	1.0	90	104	14.4				40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	66	80	19.2				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	<10	<10	NC				40 - 140	20	i
3-Nitroaniline	ND	5.0	42	44	4.7				40 - 140	20	
4,6-Dinitro-2-methylphenol	ND	1.0	93	105	12.1				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	83	101	19.6				40 - 140	20	
4-Chloro-3-methylphenol	ND	1.0	93	105	12.1				30 - 130	20	
4-Chloroaniline	ND	3.5	34	24	34.5				40 - 140	20	i,r
4-Chlorophenyl phenyl ether	ND	1.0	86	97	12.0				40 - 140	20	
4-Nitroaniline	ND	5.0	84	94	11.2				40 - 140	20	
4-Nitrophenol	ND	1.0	110	123	11.2				30 - 130	20	
Acetophenone	ND	3.5	75	87	14.8				40 - 140	20	
Aniline	ND	3.5	23	20	14.0				40 - 140	20	i
Benzidine	ND	4.5	<10	<10	NC				40 - 140	20	i
Benzoic acid	ND	10	64	94	38.0				30 - 130	20	r
Benzyl butyl phthalate	ND	1.5	99	109	9.6				40 - 140	20	
Bis(2-chloroethoxy)methane	ND	3.5	57	54	5.4				40 - 140	20	
Bis(2-chloroethyl)ether	ND	1.0	70	80	13.3				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	99	113	13.2				40 - 140	20	
Carbazole	ND	5.0	68	73	7.1				40 - 140	20	
Dibenzofuran	ND	3.5	85	96	12.2				40 - 140	20	
Diethyl phthalate	ND	1.5	95	106	10.9				40 - 140	20	
Dimethylphthalate	ND	1.5	90	101	11.5				40 - 140	20	
Di-n-butylphthalate	ND	1.5	95	109	13.7				40 - 140	20	
Di-n-octylphthalate	ND	1.5	97	110	12.6				40 - 140	20	

QA/QC Data

SDG I.D.: GCO21852

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Hexachloroethane	ND	3.5	69	88	24.2				40 - 140	20
Isophorone	ND	3.5	74	83	11.5				40 - 140	20
N-Nitrosodimethylamine	ND	1.0	63	73	14.7				40 - 140	20
N-Nitrosodi-n-propylamine	ND	3.5	77	89	14.5				40 - 140	20
N-Nitrosodiphenylamine	ND	3.5	68	78	13.7				40 - 140	20
Pentachloronitrobenzene	ND	5.0	88	102	14.7				40 - 140	20
Phenol	ND	1.0	66	81	20.4				30 - 130	20
% 2,4,6-Tribromophenol	76	%	86	103	18.0				15 - 110	20
% 2-Fluorobiphenyl	68	%	78	89	13.2				30 - 130	20
% 2-Fluorophenol	65	%	61	74	19.3				15 - 110	20
% Nitrobenzene-d5	55	%	73	84	14.0				30 - 130	20
% Phenol-d5	61	%	61	77	23.2				15 - 110	20
% Terphenyl-d14	76	%	84	96	13.3				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 682113 (ug/L), QC Sample No: CO22518 (CO21854)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	65	53	20.3				30 - 130	20
Acenaphthene	ND	0.50	65	63	3.1				30 - 130	20
Acenaphthylene	ND	0.10	66	66	0.0				30 - 130	20
Anthracene	ND	0.10	83	86	3.6				30 - 130	20
Benz(a)anthracene	ND	0.02	87	89	2.3				30 - 130	20
Benzo(a)pyrene	ND	0.02	75	77	2.6				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	74	75	1.3				30 - 130	20
Benzo(ghi)perylene	ND	0.02	72	69	4.3				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	79	77	2.6				30 - 130	20
Chrysene	ND	0.02	59	57	3.4				30 - 130	20
Dibenz(a,h)anthracene	ND	0.02	79	78	1.3				30 - 130	20
Fluoranthene	ND	0.50	85	88	3.5				30 - 130	20
Fluorene	ND	0.10	72	71	1.4				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	80	80	0.0				30 - 130	20
Naphthalene	ND	0.50	54	46	16.0				30 - 130	20
Phenanthrene	ND	0.06	66	68	3.0				30 - 130	20
Pyrene	ND	0.07	87	91	4.5				30 - 130	20
% 2-Fluorobiphenyl	71	%	59	59	0.0				30 - 130	20
% Nitrobenzene-d5	53	%	53	53	0.0				30 - 130	20
% Terphenyl-d14	105	%	79	83	4.9				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 682067 (ug/L), QC Sample No: CO24857 (CO21852, CO21853, CO21855, CO21856, CO21858, CO21859)

Semivolatiles (SIM) - Ground Water

2-Methylnaphthalene	ND	0.50	61	71	15.2				30 - 130	20
Acenaphthene	ND	0.50	76	87	13.5				30 - 130	20
Acenaphthylene	ND	0.50	62	69	10.7				30 - 130	20
Anthracene	ND	0.50	74	84	12.7				30 - 130	20
Benz(a)anthracene	ND	0.50	76	86	12.3				30 - 130	20
Benzo(a)pyrene	ND	0.50	76	86	12.3				30 - 130	20
Benzo(b)fluoranthene	ND	0.50	79	90	13.0				30 - 130	20
Benzo(ghi)perylene	ND	0.50	77	89	14.5				30 - 130	20
Benzo(k)fluoranthene	ND	0.50	82	96	15.7				30 - 130	20

QA/QC Data

SDG I.D.: GCO21852

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Chrysene	ND	0.50	76	85	11.2				30 - 130	20
Dibenz(a,h)anthracene	ND	0.50	81	93	13.8				30 - 130	20
Fluoranthene	ND	0.50	79	88	10.8				30 - 130	20
Fluorene	ND	0.50	77	87	12.2				30 - 130	20
Hexachlorobenzene	ND	0.50	74	83	11.5				30 - 130	20
Hexachlorobutadiene	ND	0.50	61	74	19.3				30 - 130	20
Hexachlorocyclopentadiene	ND	0.50	26	35	29.5				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.50	77	87	12.2				30 - 130	20
Naphthalene	ND	0.50	62	79	24.1				30 - 130	20
Nitrobenzene	ND	0.50	78	92	16.5				30 - 130	20
Pentachlorophenol	ND	0.50	86	98	13.0				30 - 130	20
Phenanthrene	ND	0.50	82	93	12.6				30 - 130	20
Pyrene	ND	0.50	79	88	10.8				30 - 130	20
Pyridine	ND	0.50	21	42	66.7				30 - 130	20
% 2,4,6-Tribromophenol	85	%	93	109	15.8				15 - 110	20
% 2-Fluorobiphenyl	69	%	63	72	13.3				30 - 130	20
% 2-Fluorophenol	66	%	58	69	17.3				15 - 110	20
% Nitrobenzene-d5	79	%	79	92	15.2				30 - 130	20
% Phenol-d5	84	%	69	84	19.6				15 - 110	20
% Terphenyl-d14	81	%	74	84	12.7				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 681555 (ug/L), QC Sample No: CO20840 (CO21852)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	5.0	109	114	4.5				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	105	106	0.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	5.0	112	115	2.6				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	106	110	3.7				70 - 130	30
1,1-Dichloroethane	ND	5.0	98	101	3.0				70 - 130	30
1,1-Dichloroethene	ND	5.0	100	104	3.9				70 - 130	30
1,1-Dichloropropene	ND	5.0	115	117	1.7				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	110	112	1.8				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	111	114	2.7				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	111	115	3.5				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	112	111	0.9				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	109	112	2.7				70 - 130	30
1,2-Dibromoethane	ND	5.0	114	112	1.8				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	108	109	0.9				70 - 130	30
1,2-Dichloroethane	ND	0.60	108	110	1.8				70 - 130	30
1,2-Dichloropropane	ND	5.0	104	105	1.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	114	113	0.9				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	108	110	1.8				70 - 130	30
1,3-Dichloropropane	ND	5.0	112	115	2.6				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	106	109	2.8				70 - 130	30
1,4-dioxane	ND	100	116	120	3.4				70 - 130	30
2,2-Dichloropropane	ND	5.0	99	98	1.0				70 - 130	30
2-Chlorotoluene	ND	5.0	110	112	1.8				70 - 130	30
2-Hexanone	ND	5.0	94	105	11.1				70 - 130	30
2-Isopropyltoluene	ND	5.0	112	113	0.9				70 - 130	30
4-Chlorotoluene	ND	5.0	110	112	1.8				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	104	107	2.8				70 - 130	30

QA/QC Data

SDG I.D.: GCO21852

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Acetone	ND	10	99	107	7.8				70 - 130	30
Acrylonitrile	ND	5.0	101	103	2.0				70 - 130	30
Benzene	ND	0.70	104	106	1.9				70 - 130	30
Bromobenzene	ND	5.0	109	112	2.7				70 - 130	30
Bromochloromethane	ND	5.0	102	104	1.9				70 - 130	30
Bromodichloromethane	ND	5.0	106	109	2.8				70 - 130	30
Bromoform	ND	5.0	106	108	1.9				70 - 130	30
Bromomethane	ND	5.0	101	103	2.0				70 - 130	30
Carbon Disulfide	ND	5.0	93	95	2.1				70 - 130	30
Carbon tetrachloride	ND	5.0	104	105	1.0				70 - 130	30
Chlorobenzene	ND	1.0	106	108	1.9				70 - 130	30
Chloroethane	ND	5.0	98	100	2.0				70 - 130	30
Chloroform	ND	5.0	95	96	1.0				70 - 130	30
Chloromethane	ND	5.0	94	96	2.1				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	101	99	2.0				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	103	106	2.9				70 - 130	30
Dibromochloromethane	ND	5.0	109	111	1.8				70 - 130	30
Dibromomethane	ND	5.0	109	113	3.6				70 - 130	30
Dichlorodifluoromethane	ND	5.0	114	115	0.9				70 - 130	30
Ethylbenzene	ND	1.0	110	111	0.9				70 - 130	30
Hexachlorobutadiene	ND	5.0	113	116	2.6				70 - 130	30
Isopropylbenzene	ND	1.0	114	115	0.9				70 - 130	30
m&p-Xylene	ND	1.0	110	111	0.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	98	115	16.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	99	104	4.9				70 - 130	30
Methylene chloride	ND	5.0	95	98	3.1				70 - 130	30
Naphthalene	ND	1.0	112	117	4.4				70 - 130	30
n-Butylbenzene	ND	1.0	120	120	0.0				70 - 130	30
n-Propylbenzene	ND	1.0	113	113	0.0				70 - 130	30
o-Xylene	ND	1.0	109	109	0.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	117	117	0.0				70 - 130	30
sec-Butylbenzene	ND	1.0	116	116	0.0				70 - 130	30
Styrene	ND	1.0	112	113	0.9				70 - 130	30
tert-Butylbenzene	ND	1.0	115	116	0.9				70 - 130	30
Tetrachloroethene	ND	1.0	107	108	0.9				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	100	97	3.0				70 - 130	30
Toluene	ND	1.0	106	106	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	101	100	1.0				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	105	109	3.7				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	79	84	6.1				70 - 130	30
Trichloroethene	ND	5.0	103	104	1.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	110	110	0.0				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	97	100	3.0				70 - 130	30
Vinyl chloride	ND	5.0	103	103	0.0				70 - 130	30
% 1,2-dichlorobenzene-d4	103	%	101	102	1.0				70 - 130	30
% Bromofluorobenzene	92	%	98	99	1.0				70 - 130	30
% Dibromofluoromethane	105	%	97	101	4.0				70 - 130	30
% Toluene-d8	95	%	99	98	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Data

SDG I.D.: GCO21852

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 681574 (ug/L), QC Sample No: CO21861 (CO21853, CO21854, CO21855, CO21856, CO21857, CO21858, CO21861)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	101	100	1.0				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	88	95	7.7				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	100	101	1.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	99	102	3.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	87	96	9.8				70 - 130	30
1,1-Dichloroethene	ND	1.0	88	101	13.8				70 - 130	30
1,1-Dichloropropene	ND	1.0	101	95	6.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	107	109	1.9				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	104	104	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	103	105	1.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	104	107	2.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	106	107	0.9				70 - 130	30
1,2-Dibromoethane	ND	1.0	103	103	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	100	100	0.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	98	94	4.2				70 - 130	30
1,2-Dichloropropane	ND	1.0	96	96	0.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	104	107	2.8				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	99	100	1.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	101	102	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	99	100	1.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	90	97	7.5				70 - 130	30
2-Chlorotoluene	ND	1.0	104	105	1.0				70 - 130	30
2-Hexanone	ND	5.0	96	94	2.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	101	103	2.0				70 - 130	30
4-Chlorotoluene	ND	1.0	102	101	1.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	95	96	1.0				70 - 130	30
Acetone	ND	5.0	92	97	5.3				70 - 130	30
Acrylonitrile	ND	5.0	88	99	11.8				70 - 130	30
Benzene	ND	0.70	106	96	9.9				70 - 130	30
Bromobenzene	ND	1.0	102	102	0.0				70 - 130	30
Bromochloromethane	ND	1.0	90	100	10.5				70 - 130	30
Bromodichloromethane	ND	0.50	97	97	0.0				70 - 130	30
Bromoform	ND	1.0	103	103	0.0				70 - 130	30
Bromomethane	ND	1.0	79	81	2.5				70 - 130	30
Carbon Disulfide	ND	1.0	82	92	11.5				70 - 130	30
Carbon tetrachloride	ND	1.0	75	81	7.7				70 - 130	30
Chlorobenzene	ND	1.0	101	101	0.0				70 - 130	30
Chloroethane	ND	1.0	112	124	10.2				70 - 130	30
Chloroform	ND	1.0	89	99	10.6				70 - 130	30
Chloromethane	ND	1.0	97	108	10.7				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	91	101	10.4				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	101	101	0.0				70 - 130	30
Dibromochloromethane	ND	0.50	101	101	0.0				70 - 130	30
Dibromomethane	ND	1.0	99	98	1.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	84	95	12.3				70 - 130	30
Ethylbenzene	ND	1.0	102	103	1.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	103	103	0.0				70 - 130	30
Isopropylbenzene	ND	1.0	103	105	1.9				70 - 130	30
m&p-Xylene	ND	1.0	102	104	1.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	90	97	7.5				70 - 130	30

QA/QC Data

SDG I.D.: GCO21852

Parameter	BIK		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								
Methyl t-butyl ether (MTBE)	ND	1.0	89	99	10.6				70 - 130	30
Methylene chloride	ND	1.0	84	93	10.2				70 - 130	30
Naphthalene	ND	1.0	109	110	0.9				70 - 130	30
n-Butylbenzene	ND	1.0	104	107	2.8				70 - 130	30
n-Propylbenzene	ND	1.0	100	101	1.0				70 - 130	30
o-Xylene	ND	1.0	102	103	1.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	106	108	1.9				70 - 130	30
sec-Butylbenzene	ND	1.0	105	108	2.8				70 - 130	30
Styrene	ND	1.0	109	107	1.9				70 - 130	30
tert-Butylbenzene	ND	1.0	105	108	2.8				70 - 130	30
Tetrachloroethene	ND	1.0	99	100	1.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	86	96	11.0				70 - 130	30
Toluene	ND	1.0	97	99	2.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	90	102	12.5				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	101	101	0.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	97	100	3.0				70 - 130	30
Trichloroethene	ND	1.0	99	99	0.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	88	97	9.7				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	80	90	11.8				70 - 130	30
Vinyl chloride	ND	1.0	88	98	10.8				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0				70 - 130	30
% Bromofluorobenzene	94	%	102	100	2.0				70 - 130	30
% Dibromofluoromethane	105	%	92	98	6.3				70 - 130	30
% Toluene-d8	98	%	100	99	1.0				70 - 130	30

Comment:

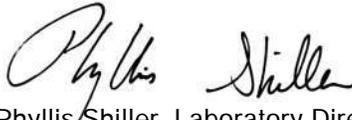
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

- l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
- r = This parameter is outside laboratory RPD specified recovery limits.
- s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 June 19, 2023

Monday, June 19, 2023

Criteria: CT: GWP, SWP

State: CT

Sample Criteria Exceedances Report

GCO21852 - TIGHE-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CO21852	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	1.0	0.05	0.05	ug/L
CO21852	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	1.0	0.2	0.2	ug/L
CO21852	\$DIOX_WMR	1,4-dioxane	CT / RSR GWPC (ug/l) / APS Organics	ND	100	3	3	ug/l
CO21853	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	1.0	0.05	0.05	ug/L
CO21853	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	1.0	0.2	0.2	ug/L
CO21853	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.012	0.004	0.004	0.004	mg/L
CO21854	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	1.0	0.05	0.05	ug/L
CO21854	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	1.0	0.2	0.2	ug/L
CO21855	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	1.0	0.05	0.05	ug/L
CO21855	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	1.0	0.2	0.2	ug/L
CO21856	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	1.0	0.05	0.05	ug/L
CO21856	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	1.0	0.2	0.2	ug/L
CO21857	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	1.0	0.05	0.05	ug/L
CO21857	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	1.0	0.2	0.2	ug/L
CO21858	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	1.0	0.05	0.05	ug/L
CO21858	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	1.0	0.2	0.2	ug/L
CO21860	AS-WM	Arsenic	CT / RSR SWPC (ug/l) / Inorganics	0.012	0.004	0.004	0.004	mg/L
CO21861	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	1.0	0.05	0.05	ug/L
CO21861	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	1.0	0.2	0.2	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc.

Client: Tighe & Bond

Project Location: BRAINARD AIRPORT

Project Number:

Laboratory Sample ID(s): CO21852-CO21861

Sampling Date(s): 6/7/2023

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8082, 8260, 8270, ETPH

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: PCB Narration, SVOA Narration, SVOASIM Narration.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

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.

Authorized Signature:  **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Monday, June 19, 2023

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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RCP Certification Report

June 19, 2023

SDG I.D.: GCO21852

SDG Comments

Metals Analysis:

The client requested a site specific list of elements which is shorter than the 6010 RCP list.

8270 Semi-volatile Organics:

Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

Volatile 8260 analysis:

1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL1 06/14/23-1

Jeff Bucko, Chemist 06/14/23

CO21852 (1X), CO21853 (1X), CO21854 (1X), CO21855 (1X), CO21856 (1X), CO21857 (1X), CO21859 (1X)

The initial calibration (ETPH515I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (614A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

AU-XL1 06/15/23-1

Jeff Bucko, Chemist 06/15/23

CO21858 (1X)

The initial calibration (ETPH515I) RSD for the compound list was less than 30% except for the following compounds: None. As per section 7.2.3, a discrimination check standard was run (615A003_1) and contained the following outliers: None. The continuing calibration %D for the compound list was less than 30% except for the following compounds:

Samples: CO21858

Preceding CC 615A016 - None.

Succeeding CC 615A029 - ETPH (C9-C36) 32%H (30%)

QC (Batch Specific):

Batch 682063 (CO21658)

CO21852, CO21853, CO21854, CO21855, CO21856, CO21857, CO21859

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 682368 (CO21858)

CO21858

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.



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Certification Report

June 19, 2023

SDG I.D.: GCO21852

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 06/08/23 21:38 Alexander Latka, Chemist 06/08/23

CO21853, CO21854, CO21855, CO21856, CO21857, CO21858, CO21859, CO21860

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.

The initial calibration met all criteria including a standard run at or below the reporting level.

All calibration verification standards (ICV, CCV) met criteria.

All calibration blank verification standards (ICB, CCB) met criteria.

The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 681312 (CO22285)

CO21853, CO21854, CO21855, CO21856, CO21857, CO21858, CO21859, CO21860

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 06/15/23 11:34 Cindy Pearce, Chemist 06/15/23

CO21852, CO21853, CO21854, CO21855, CO21856, CO21857, CO21858, CO21859

Additional criteria for CCV and ICSAB:

Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB). The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 06/15/23 10:48 Cindy Pearce, Chemist 06/15/23

CO21860

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 681748 (CO22778)

CO21860

All LCS recoveries were within 80 - 120 with the following exceptions: None.



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Certification Report

June 19, 2023

SDG I.D.: GCO21852

ICP Metals Narration

All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 681747 (CO21852)

CO21852, CO21853, CO21854, CO21855, CO21856, CO21857, CO21858, CO21859
All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ICPMS 06/08/23 14:20

Cindy Pearce, Chemist 06/08/23

CO21853, CO21855, CO21856, CO21858, CO21859, CO21860

The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following samples did not meet internal standard criteria: None.

QC (Batch Specific):

Batch 681169 (CO20484)

CO21853, CO21855, CO21856, CO21858, CO21859, CO21860

All LCS recoveries were within 80 - 120 with the following exceptions: None.

All LCSD recoveries were within 80 - 120 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 681945 (Samples: CO21857, CO21858, CO21859): -----

The blank surrogate was below criteria. A low bias for the blank is possible. (% DCBP (Surrogate Rec)(CO21857), % DCBP (Surrogate Rec) (Confirmation)(CO21857), % TCMX (Surrogate Rec)(CO21857), % TCMX (Surrogate Rec) (Confirmation)(CO21857))

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no significant variability is suspected. (PCB-1016)

Instrument:



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RCP Certification Report

June 19, 2023

SDG I.D.: GCO21852

PCB Narration

AU-ECD1 06/09/23-1 Saadia Chudary, Chemist 06/09/23

CO21853 (1X), CO21855 (1X), CO21856 (1X)

The initial calibration (PC0523AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0523BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD1 06/13/23-1 Saadia Chudary, Chemist 06/13/23

CO21857 (1X), CO21859 (1X)

The initial calibration (PC0523AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0523BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 06/13/23-1 Saadia Chudary, Chemist 06/13/23

CO21858 (1X)

The initial calibration (PC0607AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC0607BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

QC (Batch Specific):

Batch 681402 (CO20485)

CO21853, CO21855, CO21856

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Batch 681945 (CO21857)

CO21857, CO21858, CO21859

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: PCB-1016(21.6%)
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 682067 (Samples: CO21852, CO21853, CO21855, CO21856, CO21858, CO21859): -----

The LCS/LCSD recovery for one or more analytes is below the method criteria. A low bias for these analytes is possible. (3,3"-Dichlorobenzidine, Benzidine)

The LCS/LCSD recovery for one or more analytes is below the lower range. A low bias for these analytes is possible. (4-Chloroaniline, Aniline)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes and a surrogate, but these analytes were not reported in the sample(s) so no significant variability is suspected. (1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dinitrophenol, 4-Chloroaniline, Benzoic acid, Hexachloroethane, % Phenol-d5)



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RCP Certification Report

June 19, 2023

SDG I.D.: GCO21852

SVOA Narration

Instrument:

CHEM06 06/15/23-1

Keith Aloisa, Chemist 06/15/23

CO21852 (1X), CO21853 (1X), CO21855 (1X), CO21856 (1X), CO21858 (1X), CO21859 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0530):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.080 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0615_03-6_SPLIT_0530):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.089 (0.1)

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 682067 (CO24857)

CO21852, CO21853, CO21855, CO21856, CO21858, CO21859

All LCS recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), 4-Chloroaniline(34%), Aniline(23%), Benzidine(<10%)

All LCSD recoveries were within 40 - 140 with the following exceptions: 3,3'-Dichlorobenzidine(<10%), 4-Chloroaniline(24%), Aniline(20%), Benzidine(<10%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: % Phenol-d5(23.2%), 1,3-Dichlorobenzene(20.8%), 1,4-Dichlorobenzene(21.9%), 2,4-Dinitrophenol(25.9%), 4-Chloroaniline(34.5%), Benzoic acid(38.0%), Hexachloroethane(24.2%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 682067 (Samples: CO21852, CO21853, CO21855, CO21856, CO21858, CO21859): -----

The LCS recovery is below the lower range. All of the other QC is acceptable, therefore no significant bias is suspected. (Hexachlorocyclopentadiene, Pyridine)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no significant variability is suspected. (Hexachlorocyclopentadiene, Naphthalene, Pyridine)

Instrument:



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RCP Certification Report

June 19, 2023

SDG I.D.: GCO21852

SVOASIM Narration

CHEM27 06/15/23-1

Keith Aloisa, Chemist 06/15/23

CO21852 (1X), CO21853 (1X), CO21855 (1X), CO21856 (1X), CO21858 (1X), CO21859 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_SIM18_0425):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0615_03-27_SIM18_0425):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

CHEM69 06/14/23-1

Adam Werner, Chemist 06/14/23

CO21854 (1X)

Initial Calibration Evaluation (CHEM69/69_BNSIM18_0602):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM69/0614_06-69_BNSIM18_0602):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: None.

The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 682067 (CO24857)

CO21852, CO21853, CO21855, CO21856, CO21858, CO21859

All LCS recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(26%), Pyridine(21%)

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: Hexachlorocyclopentadiene(29.5%),

Naphthalene(24.1%), Pyridine(66.7%)

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 682113 (CO22518)

CO21854

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.



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RCP Certification Report

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SDG I.D.: GCO21852

SVOASIM Narration

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM17 06/08/23-1 Michael Hahn, Chemist 06/08/23

CO21852 (1X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.

EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-060523):

98% of target compounds met criteria.

The following compounds had %RSDs >20%: Naphthalene 23% (20%), trans-1,4-dichloro-2-butene 22% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.048 (0.1), 4-Methyl-2-pentanone 0.068 (0.1), Acetone 0.024 (0.1), Acrylonitrile 0.031 (0.05), Bromoform 0.096 (0.1), Methyl ethyl ketone 0.041 (0.1), Tetrahydrofuran (THF) 0.024 (0.05)

The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.048 (0.05), Acetone 0.024 (0.05), Acrylonitrile 0.031 (0.05), Methyl ethyl ketone 0.041 (0.05), Tetrahydrofuran (THF) 0.024 (0.05)

Continuing Calibration Verification (CHEM17/0608_02-VT-060523):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.040 (0.05), 2-Hexanone 0.046 (0.05), Acetone 0.023 (0.05), Acrylonitrile 0.031 (0.05), Methyl ethyl ketone 0.048 (0.05), Tetrahydrofuran (THF) 0.022 (0.05)

CHEM23 06/08/23-1 Michael Hahn, Chemist 06/08/23

CO21853 (1X), CO21854 (1X), CO21855 (1X), CO21856 (1X), CO21857 (1X), CO21858 (1X), CO21861 (1X)

Initial Calibration Evaluation (CHEM23/VOA23_060723):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.085 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM23/0608_02-VOA23_060723):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

100% of target compounds met criteria.

The following compounds did not meet % deviation criteria: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

June 19, 2023

SDG I.D.: GCO21852

VOA Narration

QC (Batch Specific):

Batch 681555 (CO20840) CHEM17 6/8/2023-1

CO21852(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 681574 (CO21861) CHEM23 6/8/2023-1

CO21853(1X), CO21854(1X), CO21855(1X), CO21856(1X), CO21857(1X), CO21858(1X), CO21861(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.0C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Coolant: Yes No
 IPK ICE
 Temp. 0 C Pg 1 of 1

Data Delivery/Contact Options:

Fax: _____
 Phone: _____
 Email: On File

Customer: Tighe & Bond
 Address: 213 Court Street, Suite 1100
 Middletown, CT 06457

Project: Brainard Airport
 Report to: James Olsen, Mark Paulsson, Casey Watts, Jill Libby
 Invoice to: Tighe & Bond Westfield
 Quote #: DAS Pricing

Project P.O: 12-5182-001

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
 Sampler's Signature: *Don Adamek* Date: 6/7/23

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
 B=Bulk L=Liquid X= (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
21852	TMW-1	GW	6/7/23	1315
21853	TMW-4	GW	6/7/23	1420
21854	TMW-5	GW	6/7/23	0955
21855	TMW-9	GW	6/7/23	1050
21856	TMW-11	GW	6/7/23	1230
21857	TMW-21	GW	6/7/23	0835
21858	MW-1	GW	6/7/23	1525
21859	DUP-4	GW	6/7/23	1051
21860	DUP-5	GW	6/7/23	1421
21861	Trip Blank	GW	6/7/23	

CT/ETPH	VOCs 8260	1,4-Dioxane 8260	SVOCS 8270	PAHs 8270	Total RCPA 8 Metals	Total RSR 15 Metals	Total Lead	PCBs 8082	GL Amber 1000ml (X) As Is	40 ml VOA Vial (X) HCl	PL HNO ₃ 250ml
X	X	X	X	X	X	X	X	X	3	3	1
X	X	X	X	X	X	X	X	X	4	3	1
X	X	X	X	X	X	X	X	X	3	3	1
X	X	X	X	X	X	X	X	X	4	3	1
X	X	X	X	X	X	X	X	X	4	3	1
X	X	X	X	X	X	X	X	X	2	3	1
X	X	X	X	X	X	X	X	X	4	3	1
X	X	X	X	X	X	X	X	X	4	1	1
X	X	X	X	X	X	X	X	X			1
X	X	X	X	X	X	X	X	X	2		

Relinquished by: *Don Adamek* Accepted by: *[Signature]*
 Date: 6/7/23 Time: 1556
 Date: 6/7 Time: 1638

RI
 RES DEC
 I/C DEC
 GA Leachability
 GB Leachability
 GA -GW Objectives
 GB -GW Objectives
 Other

CT
 RCP Cert
 GWPC
 SWPC
 GA PMC
 GB PMC
 SWPC
 RES DEC
 I/C DEC

MA
 MCP Certification
 GW-1 RCS-1 / RCGW-1
 GW-2 RCS-2 / RCGW-2
 GW-3
 S-1
 S-2
 S-3
 SW Protection

Data Format
 Excel
 PDF
 GIS/Key
 EQuIS
 EnviroData
Data Package
 Tier II Checklist*
 Full Data Package*
 Phoenix Std
 Other

Turnaround Time:
 1 Day* Standard
 2 Days* Other
 3 Days*
 4 Days*
 5 Days*

Comments, Special Requirements or Regulations:
 *MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.
 * SURCHARGES MAY APPLY

State where samples were collected: **CT**
 * SURCHARGE APPLIES

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3. Tighe & Bond performed the subsurface investigation in accordance with our Agreement (including any stated scope and schedule limitations) and used the degree of care and skill ordinarily exercised under similar circumstances by members of the profession practicing in the same or similar locality. The objective of a subsurface investigation is to evaluate the presence or absence of contamination. Where access was denied or conditions obscured, Tighe & Bond provides no opinion or report on such areas. The subsurface investigation may not identify all contaminated media as our scope may be limited to certain locations within a site or due to geologic variability, contamination variability, seasonal conditions, obstructions such as buildings, utilities, or other site features and/or other unknown conditions. Tighe & Bond performed the subsurface investigation using reasonable methods to access and identify the presence of contaminated media. Therefore, additional contaminated media may be present at the site and may be discovered during development and site work, so an appropriate cost contingency should be carried by the Client based on their risk tolerance. Tighe & Bond also makes no opinion or report of contamination that may have migrated off site unless off-site investigations are specifically including in the scope of services.
4. Findings, observations, and conclusions presented in this report, including but not limited to the extent of any subsurface explorations or other tests performed by Tighe & Bond, are limited by the scope of services outlined in the Agreement, which may establish schedule and/or budgetary constraints for an environmental assessment or phase thereof. Furthermore, while it is anticipated that each assessment will be performed in accordance with generally accepted professional practices and applicable standards (such as ASTM, etc.) and applicable state and Federal regulations, as may be further described in the report and/or the Agreement, Tighe & Bond does not assume responsibility for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of its services.

5. In preparing this report, Tighe & Bond, Inc. may have relied on certain information provided by governmental agencies or personnel as well as information and/or representations provided by other persons, firms, or entities, and on information in the files of governmental agencies made available to Tighe & Bond at the time of the site assessment. To the extent that such information, representations, or files may be inaccurate, missing, incomplete or not provided to Tighe & Bond, Tighe & Bond is not responsible. Although there may be some degree of overlap in the information provided by these various sources, Tighe & Bond does not assume responsibility for independently verifying the accuracy, authenticity, or completeness of any and all information reviewed by or received from others during the course of the site assessment.
6. The assessment presented is based solely upon information obtained or received prior to issuance of the report. If additional environmental or other relevant information is developed at a later date, Client agrees to bring such information to the attention of Tighe & Bond promptly. Upon evaluation of such information, Tighe & Bond reserves the right to recommend modification of this report and its conclusions. In addition, dense forested areas on the site created some visual and access limitations during the site reconnaissance.
7. Emerging contaminants, including per- and poly-fluorinated alkyl substances (PFAS), are hazardous materials or mixtures (including naturally occurring or manmade chemical, microbial, or radiological substances) that are characterized by having a perceived or real threat to human health, public safety, or the environment for which there are no published health standards or guidelines and there is insufficient or limited available toxicological information or toxicity information that is evolving or being re-evaluated; or there is not significant new source, pathway, or detection limit information. The state of these compounds is constantly being updated and therefore, Tighe & Bond cannot be held liable for not including these compounds in the list of analytes that are analyzed when our services are performed. Unless otherwise specified, Tighe & Bond will only analyze for compounds ordinarily included under similar circumstances by members of the profession practicing in the same or similar locality. Tighe & Bond will not be liable for not including these or any other compounds in the list of target analytes if information regarding their use is not made available by current or former operators/owners at the facility being evaluated. We will also not be liable for not analyzing for the presence of an emerging contaminant, even if that compound is detected at a later date.
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9. If an Opinion of Probable Construction Costs (OPCC) is provided, Tighe & Bond has no control over the cost or availability of labor, equipment or materials, or over market conditions or the contractor's method of pricing, and that the opinion of probable costs is made on the basis of Tighe & Bond's professional judgment and experience is based on currently available information. Tighe & Bond makes no guarantee nor warranty, expressed or implied, that the actual costs of the construction work will not vary from the OPCC.