

**Phase II/III Environmental Site Assessment
Portion of Windsor Meadows State Park
DEEP Remediation No.: TBD**

Riverfront Recapture, Inc.
Hartford, CT

April 2021
Updated November 2021



146 Hartford Road
Manchester, Connecticut 06040



November 22, 2021

Mr. Marc Nicol
Riverfront Recapture, Inc.
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RE: Phase II/III Environmental Site Assessment
Portion of Windsor Meadows State Park
73 Meadow Road, Windsor, CT
Fuss & O'Neill Reference Number: 20170277.A30
DEEP Remediation Number: TBD

Dear Mr. Nicol:

We are pleased to submit this Phase II/III Environmental Site Assessment for the above-referenced site. The assessment was conducted in accordance with the Connecticut Department of Energy and Environmental Protection's *Site Characterization Guidance Document* (CTDEP, 2010).

The results of our assessment are summarized in the attached report. Thank you for the opportunity to conduct this work. Please contact the undersigned if we can be of further assistance.

Sincerely,

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Senior Hydrogeologist

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cc:

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1 Introduction

Fuss & O'Neill, Inc. was retained by Riverfront Recapture, Inc. (RRI) to conduct Phase II/III Environmental Site Assessments (ESA) on a portion of the Windsor Meadows State Park property located at 73 Meadow Road in Windsor, CT (the "Site"). A portion of a United States Geological Survey (USGS) topographic map depicting the Site's location is provided as *Figure 1*.

The State of Connecticut has owned Windsor Meadows State Park since 1968 and, in 2020, entered into a short-term land use agreement with RRI, permitting them to occupy, maintain, and perform due diligence activities necessary for Site investigation and design planning. Refer to *Figure 2* for an aerial image depicting current Site conditions (March 2021).

Select iterations of the Phase II/III investigations were conducted concurrently with a Phase III investigation of the Riverfront Land, Inc. (RLI) properties (228, 590, 600, and 610 Leibert Road parcels in Hartford, CT and the 100 and 120 Meadow Road parcels in Windsor, CT) located to the south of the Site, as these parcels are also owned by Riverfront Recapture.

The objectives of the investigation activities were to determine whether releases of hazardous substances or petroleum products have occurred at the identified areas of environmental concern (AOCs), and to obtain additional data relative to determining the extent of identified releases. The Phase II/III investigations were conducted in conformance with the Connecticut Department of Energy and Environmental Protection (DEEP) Site Characterization Guidance Document (DEEP, 2010) and Remediation Standard Regulations (DEEP, 2021).

The main body of this report describes applicable regulatory requirements, the Site's environmental setting, general investigative procedures, and a broad overview of our findings. AOC-specific conceptual models that include detailed discussions of historical processes, investigations, results, and regulatory compliance evaluations are presented throughout the report and summarized on *Table 1*.

2 Regulatory Framework

An Environmental Condition Assessment Form (ECAF) has been drafted and will be filed with the DEEP, on behalf of the State of Connecticut and RRI, to enter the Site into the Voluntary Remediation program pursuant to CGS Section 22a-133x. This program, administered by the Remediation Division of the Bureau of Water Protection and Land Reuse, is an elective program so any interested party can expedite the investigation and remediation of any contaminated property. Once submitted, a letter of acknowledgement from DEEP will designate a remediation number for the Site.

In anticipation of the Site being entered into a formal remedial cleanup program, analytical results obtained from these investigations were reviewed and compared to the Connecticut Remediation Standard Regulations (RSRs) (regulations of Connecticut State Agencies [RCSA] Section 22a-133k-1 through 3) numeric criteria updated February 2021.

2.1 Connecticut RSRs and Applicable Criteria

The Connecticut RSRs are the clean-up standards in the State of Connecticut and contain procedures to evaluate whether actions (e.g., remediation or institutional controls) will be required to address identified releases of hazardous substances. The RSRs require that the nature and extent of release areas be fully characterized prior to making a final determination of compliance.

The RSR numeric criteria applicable to the Site, which are presented alongside analytical data collected from the Site investigations are summarized in the table below.

RSR Criteria Overview

RSR Soil Criteria	Description
Direct Exposure Criteria (DEC)	DEC are applicable to soil within 15 feet of the ground surface. Soil impacted by a release is typically compared to the residential (Res) DEC unless alternatives or variances are applied.
Pollutant Mobility Criteria (PMC)	The PMC protect groundwater from constituents leaching out of impacted soil and are dependent upon the groundwater quality classification of a Site. Since the Site is located in a GB designated area, the GB PMC were used. The GB criteria apply only to soil located above the seasonal high water table.
RSR Soil Criteria	Description
Surface Water Protection Criteria (SWPC)	The SWPC ensure that surface water quality is not impaired by the discharge of contaminated groundwater into a surface water body. Groundwater at the Site discharges to the Connecticut River.
Volatilization Criteria (VC)	Volatilization criteria protect human health from volatile substances (i.e. VOCs) in shallow groundwater that may migrate into overlying buildings and apply to groundwater within 30 feet of the ground surface (which is applicable at the Site) or a structure intended for human occupancy. The residential (Res) VC apply unless an environmental use restriction is recorded.

3 Site Overview

3.1 Physical Description

The Site is an approximately 16-acre portion of Windsor Meadows State Park, located at 73 Meadow Road within an agricultural zone of Windsor, Connecticut. The State of Connecticut has owned the Site since 1968 and, in 2020, entered into a short-term land use agreement with RRI, permitting them to occupy, maintain, and perform due diligence activities necessary for Site investigation and design planning the Site.

The Site is bounded by Decker's Brook and associated Windsor Meadows State Park trails/access road to the north, the Connecticut River to the east, Riverfront Land, Inc. (RLI) property to the south (600 Leibert Road, Hartford), and privately owned parcels along Meadow Road to the west (*Figure 2*).

Of the Site's 16 acres, approximately 9 acres in the center of the Site have historically been used as agricultural land. The central portion of the Site has not been used for agricultural purposes since approximately 2019 and has become overgrown with vegetation. Approximately 6 acres of land along the western, northern and eastern Site boundaries are wooded, and the remaining 1 acre in the northwest portion of the Site is a lawn that appears to be maintained by the adjacent 51 Meadow Road parcel (*Figure 2*).

A portion of a United States Geological Survey (USGS) topographic map showing the Site location is provided as *Figure 1* (USGS, 2013). A parcel map depicting the boundaries of the Site is provided as *Figure 2*. A Site map depicting the Site use and identified AOCs is provided as *Figure 3*.

Site Utilities

There are no existing or former structures located on the Site. The Site is not served by any utilities and neither existing or former heating sources nor drinking water or production wells are located on the Site. Electric and telephone services are available in the vicinity of the Site via overhead wires along Meadow Road. Municipal sewer and water utilities are both available in the vicinity of the Site via The Metropolitan District (MDC).

It is noted that a 36" MDC sewer main extends north-south across the western portion of the Site, as depicted on *Figure 3*. Additionally, an 18" sanitary sewer overflow branch (formerly connected to the 36" sewer main) runs east-west along the southern portion of the Site, which was reportedly cut off from the main sewer trunk in 1997. The MDC recently completed the abandonment of the former sewer overflow branch and has removed several manholes located along the line, including one on the southwestern portion of the Site and one located on the western side of the former agricultural field. Two additional manholes exist along the eastern portion of the Site, adjacent to the CT riverbank and reportedly, will be appropriately abandoned and removed by the MDC in the future.

Surrounding Land Use

Based on observations made during the field reconnaissance and available mapping, the surrounding land use includes the remainder of Windsor Meadows State Park to the north, the Connecticut River to the East, vacant (previously agricultural and commercial) land occupied by Riverfront Land, Inc. to the south, and a mix of residential, commercial, and vacant land to the west.

3.2 Site History

The Site appears to have been used for agricultural purposes dating back at least to 1934. The eastern portion of the Site transitioned from agricultural to wooded from the late 1980s to the present. The wooded areas along the western and northern portions of the Site began growing in circa 1985. The

access road making up the northern Site boundary first appears in the 2012 aerial photograph. The central portion of the Site has stopped being used for agricultural purposes and has been overgrown with vegetation.

3.3 Site Redevelopment Plans

Current redevelopment plans include extending a portion of Riverfront Recapture's Riverwalk trail system, originating from Hartford's Riverside Park, across a proposed pedestrian bridge over Meadow Brook and across the RLI property to the south. The trail will extend across the Site, and ultimately connecting to the existing Windsor Riverwalk to the north, across a proposed pedestrian bridge over Decker's Brook.

3.4 Environmental Setting

3.4.1 Topography

The topography of the Site is generally flat, but gradually slopes down towards Decker's Brook on the northern portion of the Site and towards the Connecticut River, east of the Site. The regional topography gently slopes to the east towards the Connecticut River (USGS, 2013).

3.4.2 Geology

Surficial Geology

Surficial material at the Site is mapped as alluvium overlying fines which consists of natural, postglacial materials (Stone, 1992). Surficial materials consistent with those described above were identified throughout the central portion of the Site and in the northwest portion of the Site during the investigation.

Urban Fill

On the western edge and southwest corner of the Site (AOC-03 and AOC-04) and along the berm on the easternmost edge of the Site, natural deposits were found to be overlain by fill containing gravel, concrete, brick, asphalt, and wood. Fill material was identified at thicknesses ranging from approximately 2-4 feet (along the southwestern and southeastern corners of the Site) to 7-11 feet thick along the western boundary (AOC-03). It is noted that while fill was only identified up to approximately 2 feet below grade along the southern end of the riverbank berm, based on the findings from environmental investigations on the 600 Leibert Road parcel to the south of the Site, estimated fill thickness along the riverbank berm could extend to depths up 15 feet below grade.

Bedrock Geology

Bedrock beneath the Site is mapped as Portland Arkose which consists of reddish-brown arkose (Rodgers, 1985). Depth to bedrock is generally estimated to be approximately 50-100 feet below grade throughout the majority of the Site (USGS, 2017). As part of Fuss & O'Neill's October 2020 geotechnical evaluation, bedrock was encountered at approximately 34-45 feet below grade in geotechnical borings advanced in the northcentral portion of the Site, along the proposed trail.

3.4.3 Hydrogeology

Depth to groundwater at the Site ranges from approximately 5 fbg (northwestern portion of the Site) to approximately 15 fbg. A groundwater elevation contour map (October 2021) is provided as *Figure 4*. Groundwater elevation data indicates that groundwater at the Site generally flows to the east towards the Connecticut River.

3.4.4 Water Quality Classifications

Groundwater Classification

The quality of groundwater beneath the Site is classified by the Connecticut Department of Energy and Environmental Protection as GB (CT ECO, 2020). Such groundwater is presumed not to be suitable for human consumption without treatment and is used for industrial process water and cooling waters (CTDEP, 2011).

Surface Water Classification

The nearest surface water bodies to the Site include the Connecticut River, which directly abuts the Site to the east, and Decker's Brook, which is located on the northern portion of the Site.

The Connecticut River is classified by the State of Connecticut as SB (CT ECO, 2020). Designated uses of such coastal and marine surface waters are for marine fish, shellfish and wildlife habitat, shellfish harvesting for transfer to approved areas for purification prior to human consumption, recreation, industrial and other legitimate uses including navigation (CTDEP, 2011).

Decker's Brook is classified by the State of Connecticut as A (CT ECO, 2020). Designated uses of such coastal and marine surface waters are for habitat for fish and other aquatic life and wildlife, potential drinking water supplies, recreation, navigation, and water supply for industry and agriculture.

3.4.5 Potential Receptors

A preliminary assessment was conducted to evaluate whether sensitive human health or ecological receptors are present at or directly downgradient of the Site. The results of this evaluation are presented below:

- **Endangered Species** – State and Federal listed species and significant natural communities are mapped on and adjacent to the Site (CTECO, 2017). The maps are intended to be a pre-screening tool to identify potential impacts to state-listed species. Based on identification of protected species, Fuss & O'Neill submitted a *Request for Natural Diversity Data Base (NDDB) State Listed Species Review Form* to DEEP in February 2020. The DEEP identified several species of freshwater mussels, fish and birds, the eastern box turtle, and the riverine clubtail dragonfly as living in or around the Site. Subsequent mussel and odonate surveys were conducted and supplemental NDDB information submitted in November 2021.
- **Ecological Receptors** –An ecological risk assessment has not been conducted; however, the Site is located in a developed area of Windsor. The Site is bounded by the remainder of Windsor Meadows State Park to the north, the Connecticut River to the East, vacant (previously agricultural and commercial) land occupied by Riverfront Land, Inc. to the south, and a mix of residential, commercial, and vacant land to the west.
- **Wetlands** –Mapping (CTECO, 2020; EDR, 2020) indicates that National wetlands are located in the vicinity of Decker's Brook and inland wetland soils are mapped across the Site. Additionally, EDR mapping indicates that the Site is located entirely within the 100-year flood zone.
- **Surface Waters** – The nearest surface water bodies to the Site include the Connecticut River, which directly abuts the Site to the east and Decker's Brook, which directly abuts the Site to the north.
- **Aquifer Protection Areas** – Aquifer protection areas were not identified within a 0.5-mile radius of the Site (CTECO, 2017).
- **Public Water Supply Wells** – The Atlas of Public Water Supply Sources and Drainage Basins of Connecticut (CTDEEP, 1982) shows no public water supply wells within 0.5-mile radius of the Site.
- **Private Water Supply Wells** – Reported, a private water supply well was installed by the property owner on the 51 Meadow Road parcel, located west (upgradient) of the Site in August 2019. Formerly the 51 Meadow Road property had been connected to the water supply on the 100 Meadow Road parcel. The Site is located in an urbanized area where municipal water is available to the Site and the surrounding area.
- **Physical Contact with Soil** – The potential exists for site occupants and visitors to be exposed to impacted soil or fill.
- **Potential for Vapor Intrusion** – Based on three rounds of groundwater sampling from the Site, VOCs were not detected in site groundwater.

4 Previous Investigations

Previously, a *Phase I Environmental Site Assessment* was conducted for the Site by Fuss & O'Neill in April 2020. The findings of this assessment identified the following Areas of Concern (AOCs) associated with the Site (it is noted the names of each AOC may differ slightly from those identified within the *Phase I ESA Report* however the areas themselves remain the same):

AOC – 01: Pesticide Use (Agricultural Field/Site-Wide)

The potential exists that pesticides were used across the Site and could remain at varying concentrations in shallow soil, considering that the Site had been used for agricultural purposes since prior to 1934.

AOC – 02: Riverbank Berm

An apparently non-native earthen ridge/berm was observed along the eastern boundary of the Site, along the Connecticut Riverbank, with fragments of brick and concrete observed. This material appears consistent with the fill material observed in the berm along the river on the adjacent southern property owned by RLI. Historically, fill was brought to the Site and adjacent property to reinforce and build up a physical barrier to mitigate flooding in the upland.

It is likely that the same fill material used for the construction of the riverbank berm on the adjacent property to the south (600 Leibert Road parcel) may have been used to construct the berm for flood and erosion control at the Site.

AOC – 03: Western Soil Stockpile/Earthen Berm

An overgrown stockpile, approximately 150 feet in length, was observed along the southwestern boundary of the Site and a smaller earthen berm located west of the former agricultural field, which may have historically been used to control flooding from Decker's Brook. Building material debris and general refuse (including empty 5-gallon buckets, plastic furniture, concrete, brick, and asphalt) were identified in and around the stockpile. The berm appeared to consist of native material.

AOC – 04: Former Sewer Overflow Branch Manholes/Debris Area

An uncovered manhole was observed in the southwestern corner of the Site, filled with dirt and debris. The manhole was reportedly associated with the former sewer overflow branch formerly connected to the MDC sewer main. A second open manhole, also associated with the former sewer overflow branch, was located in the former agricultural field in the central portion of the Site, with a catch basin grate observed nearby. Two final manholes, adjacent to the Connecticut River served as the discharge point for the former sewer overflow branch. The manholes along the southwestern corner of the Site and in the former agricultural field have since been abandoned and removed by MDC. The two manholes along the CT River will be abandoned and removed in the future. An area of debris was also observed on the surface to the east of the manholes in the southwest portion of the Site.

A detailed description and conceptual Site model for each AOC is presented on *Table 1*. Locations of the AOCs are depicted on *Figure 3*.

5 Phase II/III Scope of Study

Several iterations of Phase II/III investigations, consisting of soil and groundwater sampling events, were conducted at the Site between July 2020, March 2021 and October 2021. The environmental investigations were conducted to determine if releases of petroleum or other potentially hazardous substances had occurred at the four previously identified AOCs (Phase II) and to characterize and delineate identified releases (Phase III).

This section provides an overview of the methods used to investigate the Site and evaluate the data collected and describes data quality objectives, constituents of concern, laboratory methods used to analyze environmental samples, and field investigation methods.

5.1 Data Quality Objectives and Reasonable Confidence Protocols

Data quality objectives are used to ensure that data is collected in a manner that permits it to be used to evaluate a site and support decisions based on those evaluations. Procedures used to ensure that the DQOs for the project were met include:

- Development of preliminary conceptual models used to guide the selection of appropriate constituents of concern and sampling locations
- Selection of analytical methods with appropriate detection limits
- Use of pre-determined sample handling and custody procedures
- Use of pre-determined data management and documentation procedures
- Selection of sampling locations and constituents of concern appropriate to the potential release area
- Use of trip blanks and duplicates for quality assurance/quality control (QA/QC)
- Use of Connecticut's Reasonable Confidence Protocols and laboratory QA/QC procedures

5.2 Constituents of Concern

A list of constituents of concern was developed for each AOC, which comprises those compounds most likely to be released based on knowledge of Site history and findings of the 2020 Phase I ESA. The laboratory analytical methods for each constituent of concern were selected to identify and evaluate potential releases because they are capable of achieving analytical detection limits less than the baseline numeric RSR clean-up criteria applicable to the Site.

The Site-specific constituents of concern and associated analytical methods are presented in the following table:

Constituents of Concern	Analytical Method
Volatile organic compounds (VOCs)	Field screening using a photoionization detector (PID). Where suspected, VOCs were confirmed with analysis by EPA Method 8260.
Petroleum hydrocarbons	Connecticut Extractable Total Petroleum Hydrocarbons (ETPH) Method
Polynuclear Aromatic Hydrocarbons (PAHs)	EPA Method 8270
Polychlorinated Biphenyls (PCBs)	EPA Method 8082
Resource Conservation Recovery Act (RCRA) 8 Metals	SW6010 (arsenic, barium, cadmium, chromium, lead, selenium, and silver) SW-7471 (mercury)
Pesticides	EPA Method 8081

All soil and groundwater samples collected from the Site were submitted to Phoenix Environmental Laboratories (Phoenix), a state-certified laboratory located in Manchester, Connecticut, for laboratory analysis of one or more of the Site constituents of concern.

5.3 Phase II/III Investigative Procedures

The Phase II/III investigations can be broken down into the following general field methods used to develop lines of evidence for each AOC based on its initial conceptual model:

- Ground penetrating radar (GPR) surveys
- Direct-push soil sampling
- Test Pit excavation and soil sampling
- Surficial soil sampling
- Monitoring well installation and development
- Groundwater sampling

Sample locations are depicted on *Figure 3*. Details of the sampling program and the sampling rationale for each AOC are presented on *Table 1*. The following subsections provide overviews of the site characterization methods identified above.

5.3.1 Ground Penetrating Radar Surveys

Prior to the investigation activities, Fuss & O'Neill oversaw CorBuilt, LLC (CorBuilt), of Waterford, Connecticut, complete ground penetrating radar (GPR) surveys of select areas at the Site. The GPR survey areas included the area of the known MDC sewer line and its branches, and the areas surrounding the proposed soil borings and monitoring wells.

The GPR surveys were conducted primarily to clear proposed sampling locations of potential subsurface features, utilities or other anomalies, and to locate the former MDC branch line across the former agricultural field.

5.3.2 Soil Sampling (via Direct-Push & Test Pits)

In August 2020, Fuss & O'Neill oversaw Cisco advance seven (7) soil borings at select locations across the Site, using a direct-push Geoprobe® rig. Soil cores were collected continuously from the ground surface using 60-inch stainless steel samplers, which were inspected by a field engineer for physical evidence of contamination, such as staining or odors, and field screened for vapor-phase VOCs using a PID.

In October 2021, Fuss & O'Neill oversaw Cisco excavate eleven (11) test pits at select locations across the Site. The test pits were advanced to approximately 7-11 feet below grade (fbg) using an excavator, until native material was reached, or until the limits of the excavator were reached. Each bucket of soil excavated was inspected by a field engineer for physical evidence of contamination, such as staining or odors, and field-screened for vapor-phase VOCs using a photoionization detector (PID).

Soil samples were collected from depth intervals where visual inspection and/or field screening indicated evidence of impacted soil. If visual inspection and field screening did not yield evidence of impacted soil, samples were collected for laboratory analysis from predetermined intervals based on the conceptual release model for each AOC or depth intervals determined to be impacted during the investigation.

Field observations were recorded on boring logs and test pit logs included in *Appendix A*.

5.3.3 Surficial Soil Sampling

Between July 2020 and October 2021, Fuss & O'Neill collected surficial soil samples from 23 hand sampling locations (SS-01 through SS-18, and SS-39 through SS-43) throughout the former agricultural field and along the proposed trail extension (AOC-01). Shallow (0-0.5 fbg) and deeper (1-2 fbg) samples were collected from each hand sampling location with the objective to identify the extent of pesticide impacts to the shallow soil from historical agricultural activities.

Additionally, two surficial soil samples (SS-19 and SS-20) were collected from the berm along riverbank and four surficial soil samples were collected from the riverbank (HS-03 through HS-06) on the eastern portion of the Site (AOC-02). Three surficial soil samples (SS-21, HS-01 and HS-02) were also collected from the soil stockpile located on the western portion of the Site (AOC-03).

Each of the surficial soil samples were collected using a metal shovel and/or dedicated plastic trowels.

5.3.4 Monitoring Well Installation and Development

In August 2020, Fuss & O'Neill oversaw Cisco install three groundwater monitoring wells (MW-01, MW-02 and MW-03) using their direct-push Geoprobe® drill rig. The monitoring wells were completed between 13 and 20 feet below grade and were constructed with standard 1.5-inch PVC riser and a 10-foot long, pre-packed, PVC screened intervals intersecting the water table at each location. All three monitoring wells were finished with approximately 3-feet tall standpipes. The specific monitoring well construction details are summarized in *Table 2* and the well completion logs are included in *Appendix A*.

Following installation, each monitoring well was developed using surge-and-purge techniques to remove suspended sediments from the well and to increase the hydraulic connection to the surrounding aquifer.

5.3.5 Groundwater Sampling

Fuss & O'Neill conducted three groundwater sampling events, using low-flow sampling techniques, from on Site monitoring wells (MW-01, MW-02 and MW-03) in August 2020, and March 2021 and October 2021. Prior to each groundwater sampling event, the depth to water was measured at each well to provide data that could be used to establish water table elevation and groundwater flow direction. Groundwater elevations were calculated for each monitoring well on Site (*Table 2*) which were used to determine groundwater flow direction across the Site (*Figure 4*).

5.4 QA/QC Review and Data Usability

The results for QA/QC samples submitted by Fuss & O'Neill (trip blanks and duplicates) and laboratory narratives provided with each lab report were reviewed to identify issues that could affect the usability of the data. The results of the review are summarized below.

Trip Blanks

Trip blanks were provided by the laboratory to accompany each cooler of environmental samples to be analyzed for VOCs. Trip blank results were used to determine whether samples may have been compromised as a result of sample container handling or transport. A set of soil trip blanks and a set of groundwater trip blanks were submitted during each iteration of the Phase II/III investigations. VOCs were not detected in any of the trip blanks submitted.

Duplicates

Duplicate samples were generally submitted at a frequency of 1 per 20 samples per matrix. Each duplicate was collected at the same time as the corresponding primary sample and was analyzed for the same parameters.

Precision is measured by the relative percent difference (RPD) between the primary and duplicate sample results. RPD goals are ≤ 50 percent for soil and ≤ 30 percent for water. RPDs during Phase II/III investigations were generally within the target range. Where RPDs were higher than these ranges, the difference was typically attributed to sample heterogeneity or low reporting limits and/or detected concentrations where small differences can result in a high RPD. The variation in RPDs is not expected to affect the interpretation of analytical results. As a conservative measure, release areas were evaluated with respect to the greater of primary or duplicate analytical results.

Reasonable Confidence Protocols

The reasonable confidence protocol packages provided with laboratory reports were reviewed and the narratives identified minor QA/QC issues that were considered in interpreting the data. Based on a review of the QA/QC issues identified, it was determined that the usability of the data was not affected.

6 Phase II/III Results

The results from the Phase II/Phase III investigations conducted between July 2020 and October 2021 are presented in the following subsections.

Soil and groundwater analytical data from samples collected during the Phase II/III investigations is summarized and compared to applicable RSR criteria in *Tables 3A/B* and *Table 4*. Copies of the laboratory analytical reports are provided in *Appendix B*.

6.1 GPR Survey Results

The GPR survey conducted by Corbuilt, LLC in July 2020 and October 2021 identified the former sewer branch line that runs from the MDC line on the western edge of the Site, east across the center of the agricultural field to the riverbank. Additionally, a shallow feature, presumed to be a portion of an irrigation system, was identified running east-west along the northern portion of the former agricultural field located on the adjacent 600 Leibert Road parcel.

No other evidence of utilities, USTs, or anomalies were identified in the vicinity of the investigation areas.

6.2 Background Evaluation

To evaluate the analytical data generated during Phase II/Phase III investigations for releases, Site background concentrations were established for metals, which occur naturally in Connecticut soils. Background concentrations were also established for upgradient groundwater conditions, flowing onto the Site.

Soil Background

Fill containing asphalt, brick, and concrete was identified along the riverbank berm on the eastern side of the Site (AOC-02), in the stockpile located on the western portion of the Site (AOC-03) and on the southwest portion of the property (AOC-04). To prevent elevated estimates of background concentrations due to the presence of fill, background concentrations of metals in soil were assessed at boring SB-01/MW-01, where no evidence of fill was observed.

Soil across the Site is inferred to contain metals at concentrations within the same order of magnitude as the concentrations detected in SB-01, provided below:

Metal	Inferred Site Background Concentration (mg/kg)	State of Connecticut Background Concentration Range (mg/kg)
Arsenic	1.6	<7.0
Barium	36.9	<200
Cadmium	0.65	<1.0
Chromium	18.3	<25
Lead	7.67	<25-50
Mercury	<0.08	<0.1
Selenium	<1.6	<2.5
Silver	<0.41	<0.5

Concentrations of metals not consistent with those listed above were generally inferred to represent evidence of environmental impact at the Site. Fill material present across the Site was identified to contain concentrations of metals above the background levels. PAHs were also reported within samples of the fill material, likely due to specific components of the fill material (i.e. asphalt fragments).

Therefore, the assessment of potential releases from historic site operations require an evaluation of analytical data with respect to both anticipated background concentrations and to concentrations associated with the fill identified across the Site.

Groundwater Background

Monitoring well MW-01 was installed on the northwestern (upgradient) portion of the Site to evaluate the potential for impacted groundwater to flow onto the Site from off-site sources. Analytical results from groundwater samples collected from this monitoring well indicate that ETPH, VOCs, PAHs, and pesticides were not detected above laboratory reporting limits in groundwater from this location.

Concentrations of metals detected at MW-01 include barium (0.032-0.08 mg/L) and chromium (0.003 mg/L) appear to be consistent with background metals concentrations in groundwater in Connecticut. No other metals were detected in groundwater at MW-01.

6.3 Soil Sampling Results

The Phase II/III investigations conducted between July 2020, March 2021 and October 2021, a total of 70 soil samples were collected from soil borings, test pits or surficial sampling locations across the Site.

Following review of the soil characterization and AOC in which the sample was collected from, each sample was submitted for laboratory analysis of RCRA 8 metals, ETPH, PAHs, PCBs, VOCs, and/or

pesticides. A summary of AOC-specific soil analytical results compared to applicable RSR criteria is discussed in the subsections below. Soil analytical results are summarized on *Tables 3A/B*.

6.3.1 AOC-01 Pesticide Use (Agricultural Field/Site-Wide)

Background

The central portion of the Site was historically used as an agricultural field dating back to approximately 1934. Given the historic cultivation activities, it was likely that pesticides were regularly applied to the agricultural field prior to 2019, when the agricultural activities ceased.

Therefore, shallow soil across the former agricultural field and along the proposed trail was evaluated for residual pesticide concentrations during the Phase II/III investigation activities. Given the length of time that the parcel was used for agricultural purposes, shallow soil samples from borings and test pits advanced in other areas of the Site were also analyzed for pesticides, however the results from those samples are discussed in subsequent sections below.

Analytical Results

A total of 45 shallow soil samples (from depths varying between approximately 0-2 fbg) were collected from the former agricultural field between the investigations conducted between July 2020 and October 2021. Two samples from a depth of 4-6 fbg were also analyzed from test pits TP-09 and TP-10 as a screening tool to confirm the residual pesticide concentrations are limited to the shallow soils.

Overall, analytical results indicated that varying concentrations of pesticides (including DDE, DDT, Chlordane, Dieldrin and Heptachlor Epoxide) were reported in each of the 45 shallow soil samples collected from this AOC, with concentrations of DDE, DDT, Chlordane, and Dieldrin detected above the GB PMC in select samples. Pesticides were not reported above laboratory detection limits in the two deeper screening samples collected from test pits TP-09 and TP-10.

Conceptual Model

Consistent with data collected from the adjacent parcel owned by RLI, pesticides were detected in every shallow soil sample collected from the former agricultural field and from within the majority of samples collected in other Site AOCs.

The pesticides 4,4-DDE, 4,4-DDT, and chlordane were the predominant constituents detected, with fewer detects of 4,4-DDD, dieldrin and heptachlor epoxide. Each constituent detected were reported in the 45 samples, collected from depths up to 2 feet below grade, were within similar orders of magnitude and no 'hot spot' areas were identified across the agricultural field, as summarize below:

Pesticide	# of Detects/ # of Samples	Concentration Range Reported (ug/kg)
4,4-DDD	1/45	8.1
4,4-DDE	45/45	34 – 170
4,4-DDT	45/45	27 – 210
Chlordane	21/45	39 – 120
Dieldrin	3/45	5.7 – 20
Hetachlor Epoxide	16/45	7.6 – 14

While concentrations of DDE and DDT in every sample and concentrations of chlordane from four samples exceeded the GB PMC, the detected concentrations and distribution indicate the presence of pesticides associated with past applications of uniformly distributed pesticides associated with accepted industry practices.

Per RCSA 22a-133k-2(c)(5)(E) “*soil that is polluted with pesticides at a release area as a result of the application of pesticides at the release area is not required to be remediated to the pollutant mobility criteria provided that a determination has been made that such pesticides are present solely as a result of the application of pesticides and:*

- i. Compliance with the direct exposure has been achieved*
- ii. Compliance with the groundwater standards of the RSR has been achieved*

Concentrations of pesticides reported in all 45 samples, collected from depths up to 2 fbg, analyzed from AOC-01 were below the RES DEC, and analytical results from three groundwater sampling events from monitoring wells within and downgradient of this AOC indicated that pesticides were not detected in Site groundwater (*Section 6.5*). Screening samples from deeper intervals (4-6 fbg) confirm the residual pesticide concentrations impact primarily the shallow soil. Given the lengthy agricultural history of the Site, the pesticides reported in this AOC are associated with incidental releases from industry standard application of pesticides for agricultural and cultivation purposes.

The absence of pesticides in representative groundwater samples following decades of surficial pesticide application, demonstrate that the residual pesticides at this AOC is limited to shallow soils and has not negatively impacted the groundwater. Since a release of pesticides to groundwater has not occurred based on three seasonal monitoring events, demonstration of compliance with the groundwater standards at this AOC would not be required.

6.3.2 AOC-02 Riverbank Berm

Background

An apparent earthen ridge/berm was observed along the eastern boundary of the Site, along the Connecticut Riverbank. Material within the berm appeared to primarily be overgrown, native material. Fill material consisting of asphalt, brick and concrete fragments was identified during the Phase II/III investigation activities in a boring along the southern portion of the berm/riverbank extending to a depth of approximately 1.5 feet below grade. This material appears consistent with the fill material

observed in the berm along the river on the adjacent southern property owned by RLI. It is likely that when fill material was imported to build the berm along the river on the adjacent RLI property to the south, the same material extended onto the southern portion of this area on Site. The mix of native and fill material was likely used to create the berm (on both properties) to provide flood and erosion control of the agricultural fields.

Analytical Results

During the Phase II/III investigation activities, soil samples were collected from surficial sampling locations along the berm (SS-19 & SS-20) and riverbank (HS-03 – HS-06), direct push soil borings (SB-07) and test pits (TP-04 – TP-08). A total of 13 soil samples were collected from this AOC to evaluate the quality of fill identified within the earthen berm and along the riverbank and consistent with that used to construct the berm along the eastern boundary of the adjacent 600 Leibert Road parcel. Each soil sample collected from this AOC was submitted for laboratory analysis of metals, PAHs, ETPH and/or PCBs (to evaluate for the potential presence of fill), and pesticides, to evaluate the potential for pesticides used in the former agricultural field to have migrated via surface stormwater flow and/or movement of soil from the field to the AOC.

The test pits were advanced along the length of the berm/riverbank and extended to approximately 7 feet below grade. The subsurface material identified in each test pit appeared to generally be native material with trace fill identified in the shallow depth intervals from the surface to approximately 2 feet below grade.

Several metals (arsenic, barium, cadmium, chromium, lead and mercury) were detected in each of the 13 soil samples collected from this AOC, at varying concentrations below applicable RSR criteria. Metals concentrations were generally consistent with inferred background concentrations for the Site and State of Connecticut.

PAHs were reported at varying concentrations in 7 of the 12 samples analyzed. These concentrations were primarily below applicable RSR criteria with the exception of those reported in sample SB-07 (0.5-1.75) which exceeded the Res DEC and/or GB PMC, likely associated with the fill material identified at this sampling location. A summary of PAHs detected in samples from this AOC is presented in the table below:

PAHs	# of Detects/ # of Samples	Concentration Range Reported(ug/kg)
Acenaphthylene	1/12	2,500
Anthracene	1/12	1,700
Benzo(a)anthracene	4/12	300 - 3,600
Benzo(a)pyrene	5/12	290 - 3,900
Benzo(b)fluoranthene	3/12	290 - 3,400
Benzo(ghi)perylene	3/12	310 - 2,500
Benzo(k)fluoranthene	4/12	300 - 2,600
Chrysene	4/12	310 - 3,500
Dibenzo(a,h)anthracene	1/12	700

PAHs	# of Detects/ # of Samples	Concentration Range Reported(ug/kg)
Fluoranthene	5/12	290 - 5,700
Fluorene	1/12	510
Indeno(1,2,3-cd)pyrene	3/12	290 - 2,500
Naphthalene	1/12	280
Phenanthrene	2/12	340 - 3,200
Pyrene	7/12	260 - 5,800

Pesticides were reported in 9 of the 13 samples collected from this AOC. Concentrations of most pesticides are consistent with those reported in samples collected from the agricultural field (which exceed GB PMC) and supports the evidence that the majority of the earthen berm was likely constructed with native soil from other areas of the Site. Concentrations of pesticides reported in sample TP-04 (0-2) however were detected at more elevated levels than the concentration ranges reported across the former agricultural field; specifically, chlordane which was detected at the Res DEC criteria of 490 ug/kg at this sample location. A summary of pesticides detected in samples from this AOC is presented in the table below:

Pesticides	# of Detects/ # of Samples	Concentration Range Reported (ug/kg)
4,4'-DDD	2/13	1.7 – 22
4,4'-DDE	8/13	4.4 – 260
4,4'-DDT	9/13	4.8 – 280
Chlordane	6/13	43 – 490
Dieldrin	1/13	9.3
Endrin Ketone	1/13	11
Heptachlor Epoxide	2/13	14 – 78

ETPH and PCBs were not detected above laboratory reporting limits in the samples analyzed.

Conceptual Model

Based on visual observation of the area and material encountered within soil borings, test pits and surficial sampling locations, the berm along the riverbank on the eastern boundary of the Site measures approximately 50 feet wide by 600 feet long (*Figure 3*). While material in test pits from the berm appeared to primarily overgrown native material, approximately 2 feet of fill material was identified along the southern end of this area. Soil samples collected from this area had concentrations of petroleum hydrocarbons, pesticides, and metals reported at varying levels.

In general, pesticides were detected in all soil samples collected from this AOC at concentrations similar in magnitude to samples collected from AOC-01, which exceeded the baseline GB PMC but were below the Res DEC. These concentrations support evidence that suggests the berm along the riverbank was likely constructed from excess Site soils. The exception to this was the concentrations reported in sample TP-04 (0-2) which exhibited elevated levels of chlordane, DDE and DDD.

PAHs were reported at varying concentration ranges, primarily below applicable RSR criteria, in the majority of samples analyzed from the berm area. It is noted that select PAHs were reported in sample SB-07 (0.5-1.75) at concentrations which exceeded the Res DEC and/or GB PMC, likely associated with the fill material (containing asphalt fragments) identified at this sampling location.

The area of impact in the southern portion of AOC-02, in the vicinity of SB-07 and TP-04, measures approximately 35 by 45 feet and appears associated with the presence of impacted fill material. The PAH concentrations and fill identified in this area are consistent with urban fill materials containing asphalt fragments identified in the berm along the river on the adjacent RLI parcel; specifically those identified in the northwest corner of the adjacent RLI property, directly adjacent to the impacted area identified in the southern portion of AOC-02 on Site.

Due to the heterogeneity of the composition of the fill, it is possible that any individual samples collected from the southern portion of AOC-02 have the potential to exceed RSR cleanup criteria.

6.3.3 AOC-03 Western Soil Stockpile/Earthen Berm

Background

An overgrown soil stockpile, approximately 150 feet in length and approximately 25 feet wide, is located along the western boundary of the southern portion of the Site. Discarded building material debris and general refuse, including empty 5-gallon buckets, plastic furniture, concrete, brick, and asphalt were identified around the stockpile during the Phase I ESA. Large debris and empty containers were subsequently removed and disposed of prior to implementation of the Phase II/III investigation activities.

Analytical Results

Three surficial soil samples (SS-21, HS-01 and HS-02) were collected from the stockpile and three samples were collected from two test pits (TP-01 and TP-11) excavated within the stockpile to evaluate the presence of fill materials in this area. Fill material consisting of brick, asphalt and general refuse (ie-plastic, cloth, cans, etc.) was observed in test pit TP-11 (located in the northern most portion of the stockpile) to a depth of 11 feet below grade, which was the extent of excavator.

During investigation activities, the earthen berm along the western edge of the agricultural field was observed to be comprised of native material overgrown with vegetation, similar in age and appearance to the earthen ridge observed along the eastern boundary of the Site. However, unlike the ridge on the eastern portion of the site, no visual evidence of fill materials was observed along the western berm. Based on these observations, it is likely that the earthen berm on the western portion of the Site was created from excess onsite soil and contains concentrations of pesticides consistent with those detected in the agricultural field.

ETPH, PCBs and VOCs were not detected above laboratory reporting limits in any of the five samples analyzed from this AOC. Several metals (arsenic, barium, cadmium, chromium, lead and mercury) were detected in each of the samples analyzed, at varying concentrations that were below applicable RSR criteria, and generally consistent with inferred Site and State background concentrations.

PAHs were reported in two of the surficial soil samples (SS-21 and HS-01) at concentrations that were below applicable RSR criteria. Similar concentrations were identified in surficial sample HS-02, with the exception of benzo(a)pyrene, which was reported at a level slightly exceeding the Res DEC and GB PMC. The PAH constituents reported within these samples are at concentrations generally characteristic of asphalt fragments.

Concentrations of PAHs reported in sample TP-01 (0-2) however were significantly higher than those reported in the other samples from across the AOC, with several exceeding the applicable Res DEC and GB PMC. PAHs reported in the deeper sample, collected from 2-4', from test pit TP-01 were detected below applicable criteria.

PAHs were not reported above laboratory detection limits in sample TP-11 (0-2').

Pesticides were reported in each of the 6 samples collected from this AOC. Concentrations of most pesticides were generally consistent with those reported in samples collected from the agricultural field (which exceed GB PMC). Concentrations of pesticides, specifically DDD, DDE and DDT, reported in samples TP-01 (0-2) and HS-01 however were detected at more elevated levels than the concentration ranges reported across the former agricultural field.

Conceptual Model

Based on the observations made during the Phase II/III investigations, the overgrown stockpile appears to be comprised primarily of fill and general debris/refuse, with a fill layer between approximately 7 feet (TP-01) to approximately 11 feet (TP-11).

In general, the fill appears to be the source of the detected constituents in this area. While the concentrations of pesticides detected appear generally consistent with those reported in samples collected from the agricultural field (which exceed GB PMC), concentrations of pesticides in samples TP-01 (0-2) and HS-01 were slightly higher than those identified in samples collected from across the former agricultural field.

The earthen berm which comprises the western boundary of the former agricultural field was likely constructed as a flood control mitigation measure. Unlike the ridge on the eastern boundary of the agricultural field, the western berm exhibited no evidence of debris (asphalt, concrete, brick etc.) or fill. No staining or evidence of dead or dying vegetation was observed. Based on the widespread and uniform nature of pesticides detected in shallow soil across the site, the material that comprises the berm likely contains pesticides at concentrations similar to those detected at AOC-01.

6.3.4 AOC-04 Former Sewer Overflow Branch Manholes/Debris Area

Background

An uncovered manhole, reportedly associated with the sewer overflow branch formerly connected to the MDC sewer main, was observed in the southwestern corner of the Site. Between the time the Phase I ESA was conducted and the Phase II investigation was initiated, the manhole structure had been completely filled in with soil and abandoned by MDC. A second open manhole, also associated with the former sewer overflow branch, was located in the former agricultural field in the central portion of the Site. Additionally, an area of discarded debris, including building materials, general refuse, concrete, brick, and asphalt was observed in the southwest portion of the Site.

GPR surveys identified the former sewer branch line and sampling locations were positioned around it to avoid damaging the former line.

Analytical Results

Three soil borings (SB-02 through SB-04) and two test pits (TP-02 and TP-03) were advanced in the vicinity of the manhole and debris area in the southwestern corner of the Site. Soil boring SB-03 was completed as a monitoring well (MW-02), directly to the north of the abandoned manhole. Test pit TP-03 was advanced to the east of the abandoned manhole in the approximate area where debris was observed during the Phase I ESA. Additionally, test pits TP-09 and TP-10 were advanced within the agricultural field adjacent to the former sewer overflow branch.

Borings advanced at this AOC encountered brick, brick fragments, and asphalt at depths up to approximately four feet below the ground surface. Beyond a depth of 4 feet at location SB-03, the material consisted of sand and gravel with no odors or staining present to a depth of twelve feet below the ground surface. No fill was identified in the test pits advanced along the former sewer overflow branch in the former agricultural field.

ETPH, VOCs and/or PCBs were not detected at any of the samples analyzed from this area, with the exception of the VOC constituent naphthalene, which was detected at a trace concentration, well below applicable RSR criteria, at SB-02 and ETPH which was reported at a trace concentration, below RSR criteria, in TP-03 (0-2). Several metals were detected at all five sample locations analyzed at concentrations generally consistent with inferred background levels and well below applicable RSR criteria.

Several PAHs were detected at varying concentrations in all five samples from this area. Concentrations of select PAHs in samples from SB-02 and SB-04 exceeded the GB PMC and/or Res DEC. A summary of the PAHs concentration ranges detected within this AOC is presented in the table below:

PAHs	# of Detects/ # of Samples	Concentration Range Reported (ug/kg)
Acenaphthylene	2/5	290 – 1,300
Anthracene	1/5	680
Benzo(a)anthracene	4/5	400 – 1,400
Benzo(a)pyrene	4/5	480 – 2,400
Benzo(b)fluoranthene	4/5	370 – 1,500
Benzo(ghi)perylene	5/5	370 – 2,200
Benzo(k)fluoranthene	4/5	440 – 1,800
Chrysene	4/5	400 – 1,400
Dibenzo(a,h)anthracene	2/5	290 – 350
Fluoranthene	3/5	750 – 1,900
Fluorene	1/5	270
Indeno(1,2,3-cd)pyrene	5/5	350 – 1,600
Naphthalene	1/5	260
Phenanthrene	3/5	410 – 790
Pyrene	4/5	710 – 2,800

Pesticides were detected in 5 of the six soil samples analyzed, most with concentrations that exceeded the GB PMC. Select pesticides were reported at concentrations below applicable RSR criteria in the soil sample TP-02 (0-2) and were not detected above laboratory reporting limits in sample SB-02 (0.2-1). A summary of pesticides concentration ranges detected is presented in the table below:

Pesticides	# of Detects/ # of Samples	Concentration Range Reported (ug/kg)
4,4'-DDD	2/6	31 – 57
4,4'-DDE	5/6	1.9 - 170
4,4'-DDT	5/6	2 – 270
Chlordane	3/6	270 – 750
Dieldrin	2/6	9.5 – 20
Endrin	3/6	41 – 120
Endrin Ketone	1/6	36
Heptachlor	1/6	15
Heptachlor epoxide	3/6	17 – 85

Conceptual Model

Fill was observed at the borings advanced at and in the vicinity of the former manhole in this AOC, along the southwest portion of the Site, to a depth of approximately four feet below grade. Based on boring refusal at shallow depths, brick or other similar types of fill materials (concrete, rock) may be encountered throughout this area. Observations and analytical data from soil samples collected from in the vicinity of the former manholes revealed no evidence of a release to the subsurface from the manhole.

Concentrations of PAHs detected in the shallow samples are attributable to the fill material in the area and were similar in magnitude to samples collected from the fill at AOC-02. Pesticide concentrations reported in this AOC are likely attributable to the industry standard application of pesticides across the Site with the exception of the elevated concentrations reported in samples from TP-03.

Overall, an area of PAHs and pesticide impact, measuring approximately 15 x 75 feet to a depth of approximately 4 feet below grade, was identified in this area, as depicted on *Figure 3*.

6.4 Urban Fill Material

During the Phase II/III investigation activities, urban fill material were identified at varying thicknesses in several sampling locations across the Site. The varying thickness of fill and locations in which they were identified are summarized below.

AOC	Sampling Location	Depth Interval of Fill (fbg)	Fill Thickness (feet)	Fill Material	COCs Detected > RSR Criteria	RSR Criteria Exceeded
AOC-02	SB-07	0.4 - 1.7	1.3	Asphalt Brick Gravel	PAHs Pesticides	GB PMC and/or Res DEC
AOC-03	TP-01	0 - 7	7	Brick Plastic/Tra sh	PAHs Pesticides	GB PMC and/or Res DEC
	TP-11	0 - 11	11	Brick Plastic/ Trash	Pesticides	GB PMC
AOC-04	SB-02	0.2 - 1.7 (refusal)	1.5	Gravel Brick Concrete Wood	PAHs	GB PMC and/or Res DEC
	SB-03 (MW-02)	0 - 4.5	4.5	Asphalt Brick Gravel	Pesticides	GB PMC

Refer to *Figure 3* for the sampling locations.

6.5 Groundwater Sampling Results

Fuss & O'Neill completed three groundwater sampling events in August 2020, March 2021 and October 2021. During each sampling event, samples were collected from the three on-Site monitoring wells including MW-01 (located on the northwestern portion of the Site, which serves as the

upgradient/background well), MW-02 (located adjacent to the abandoned manhole on the southwestern portion of the Site) and MW-03 (located east/downgradient of the former agricultural field).

ETPH, VOCs, PAHs, and pesticides were not detected above laboratory reporting limits at any of the monitoring wells sampled during the groundwater sampling events. Barium and/or chromium was detected well below applicable RSR criteria at each monitoring well during the sampling events. Based on the results from the groundwater sampling events, impacts to Site soil discussed in *Sections 6.3.1* through *6.3.4* have not negatively affected Site groundwater quality.

Refer to *Table 4* for a summary of the Site groundwater analytical results.

Off-Site Groundwater

It is noted that in addition to the groundwater sampling events conducted at the Site, three rounds of groundwater sampling have also been conducted at the adjacent RLI property between 2018 - 2020. VOCs, pesticides, or herbicides have not been detected at any of the monitoring wells on the neighboring property during any of those sampling events. Similar to on Site groundwater sampling results, barium and chromium were reported at concentrations below applicable RSR criteria and generally consistent with the inferred background concentrations during select monitoring events on the RLI property to the south.

Several PAHs, including acenaphthalene, anthracene, fluoranthene, phenanthrene, and pyrene were detected at three monitoring wells on the RLI property monitoring wells (RLI_MW-01, RLI_MW-02, and RLI_MW-03) during the April and/or October 2018 sampling events. Detected PAHs were reported at concentrations ranging from 0.05 ug/L to 0.14 ug/L, well below applicable RSR criteria. PAHs were not detected at the RLI property during the August 2020 sampling event.

6.6 AOCs with Identified Releases

The Phase II/Phase III environmental investigations identified releases at each of the four Site AOCs:

AOC	Release Determination	RSR Status Summary
<u>AOC-01</u> Pesticide Use (Agricultural Field/ Site-Wide)	Pesticides were reported at concentrations consistent with industry standard application for agricultural purposes.	Although pesticide concentrations exceed the GB PMC, considering concentrations are consistent with industry standard application, below Res DEC, and groundwater has not been impacted, the PMC does not apply.

AOC	Release Determination	RSR Status Summary
<u>AOC-02</u> Riverbank Berm	Pesticide concentrations were reported at levels consistent with industry standard application for agricultural purposes along the berm, which measures approximately 50' by 600' along the riverbank. PAHs were identified along the southern end at concentrations generally consistent with urban fill material containing asphalt fragments and coal ash.	Pesticides and PAHs were reported at select locations at concentrations greater than GB PMC or Res DEC (PAHs only). Based on field observations and analytical results from samples collected within the berm, it appears the berm consists of native soil, likely created from excess soil generated during historical agricultural processes. An area with observed debris and fill material along the southern end of the AOC (approximately 45 x 35 feet to approximately 4 feet deep) has concentrations of PAHs and pesticides that will require remedial action to be brought into compliance with RSR cleanup objectives.
<u>AOC-03</u> Western Soil Stockpile/ Earthen Berm	Urban fill was identified in the test pits excavated in this area to depths between approximately 7-11 feet below grade. In general, pesticides were primarily reported at concentrations consistent with industry standard applications, and PAHs also identified at concentrations consistent with fill material. A 'hot spot' with PAHs reported approximately 2 orders of magnitude higher and slightly elevated pesticide concentrations compared to other samples collected from the AOC was identified at TP-01 (0-2).	Pesticides and PAHs were reported in samples from the fill material at concentrations greater than GB PMC or Res DEC (PAHs only). Remedial actions are warranted to address the 'hot spot' identified at TP-01 (measuring approximately 25 x 40 feet, to a depth of approximately 2 feet).

AOC	Release Determination	RSR Status Summary
<u>AOC-04</u> Former Sewer Overflow Branch Manholes/Debris Area	Visual observation indicated the presence of fill to approximately 4 feet below grade along the western and central portions of this AOC and surficial debris at the eastern side of this AOC. Samples collected from TP-03 (eastern side) had elevated concentrations of pesticides to approximately 4 feet below grade. While concentrations of PAHs exceeded RSR criteria in SB-02 and SB-04, the concentrations reported are still generally consistent with impacted fill material identified across the Site.	An area of PAHs and pesticide impact, measuring approximately 15 x 75 feet to a depth of approximately 4 feet below grade, was identified in this area.

Refer to *Table 1* for AOC-specific conceptual models and investigation results for these AOCs.

Based on the Phase II/Phase III investigation results, remedial action is required at select areas within each of the four AOCs to ultimately achieve compliance with RSR cleanup objectives.

7 RSR Summary Status

The regulatory status of each AOC is presented in the conceptual models discussed above and in *Table 1*. Overall, concentrations of pesticides and PAHs were detected at concentrations above applicable RSR criteria (GB PMC and/or Res DEC) in select soil samples collected from across the Site.

7.1 Pesticides

In general, the reported concentration range of pesticides across the Site appear consistent with decades of industry standard application of pesticides for agricultural use. The historic application of pesticides at the Site has resulted in residual concentrations of pesticide constituents (primarily 4,4'-DDD, 4,4'-DDE, 4,4'-DDT and Chlordane; and to a lesser degree, Dieldrin and Heptachlor Epoxide) in shallow soil at levels exceeding the GB PMC.

Per RCSA 22a-133k-2(c)(5)(E) “*soil that is polluted with pesticides at a release area as a result of the application of pesticides at the release area is not required to be remediated to the pollutant mobility criteria provided that a determination has been made that such pesticides are present solely as a result of the application of pesticides and.*”

- i. *Compliance with the direct exposure has been achieved*
- ii. *Compliance with the groundwater standards of the RSR has been achieved*

The absence of pesticides in representative groundwater samples following decades of surficial pesticide application, demonstrate that the application of pesticides at the Site is limited to shallow soils and has not negatively impacted the groundwater.

Concentrations of pesticides reported in the 71 samples analyzed from across the Site were below the Res DEC, with the exception of two sample locations where Chlordane was reported at the Res DEC (490 ug/kg at TP-04 [0-2']) and exceeding the Res DEC (750 ug/kg at TP-03 [2-4']). Therefore, a 95 percent Upper Confidence Level (95% UCL) statistical evaluation was performed on the data set from across the Site to determine if the arithmetic mean of all results from the Site was less than the Res DEC.

The results from the 95% UCL reported the average UCL concentration across the data set suggested a UCL value of 213 ug/kg, which is below the promulgated Res DEC for chlordane (490 ug/kg). Based on this evaluation, residual pesticide concentrations in shallow soil across the Site comply with DEC and therefore, achieve the conditions of RCSA 22a-133k-2(c)(5)(E); confirming the PMC do not apply to pesticides at the Site.

No further action is warranted with regard to pesticide concentrations in soil at the Site.

7.2 PAHs

During the Phase II/III investigation activities, 24 of the soil samples collected from across the Site were analyzed for PAHs. Of these samples, one or more PAH constituents were reported at varying concentrations at 15 sample locations. The PAH constituents reported across the Site are consistent with those reported in fill containing asphalt fragments.

A summary of the constituents reported and the RSR exceedances are summarized in the table below.

PAHs	# of Detects/ # of Samples Analyzed	# of RSR Exceedances/ # of Detects	RSR Exceeded	Location Where RSR Exceedances Reported
Acenaphthylene	5/24	0/5	---	---
Anthracene	3/24	0/3	---	---
Benzo(a)anthracene	12/24	4/12	Res DEC & GB PMC	AOC-02: SB-07 (0.5-1.75) AOC-03: TP-01 (0-2) AOC-04: SB-02 (0.2-1) & SB-04 (1-2.5)

PAHs	# of Detects/ # of Samples Analyzed	# of RSR Exceedances/ # of Detects	RSR Exceeded	Location Where RSR Exceedances Reported
Benzo(a)pyrene	13/24	5/13	Res DEC & GB PMC	AOC-02: SB-07 (0.5-1.75) AOC-03: TP-01 (0-2) & HS-02 AOC-04: SB-02 (0.2-1) & SB-04 (1-2.5)
Benzo(b)fluoranthene	11/24	4/11	Res DEC & GB PMC	AOC-02: SB-07 (0.5-1.75) AOC-03: TP-01 (0-2) AOC-04: SB-02 (0.2-1) & SB-04 (1-2.5)
Benzo(ghi)perylene	13/24	4/13	Res DEC & GB PMC	AOC-02: SB-07 (0.5-1.75) AOC-03: TP-01 (0-2) AOC-04: SB-02 (0.2-1) & SB-04 (1-2.5)
Benzo(k)fluoranthene	12/24	4/12	Res DEC	AOC-02: SB-07 (0.5-1.75) AOC-03: TP-01 (0-2) AOC-04: SB-02 (0.2-1) & SB-04 (1-2.5)
Chrysene	12/24	4/12	Res DEC	AOC-02: SB-07 (0.5-1.75) AOC-03: TP-01 (0-2) AOC-04: SB-02 (0.2-1) & SB-04 (1-2.5)
Dibenz(a,h)anthracene	4/24	1/4	Res DEC & GB PMC	AOC-03: TP-01 (0-2)
Fluoranthene	12/24	0/12	---	---
Fluorene	3/24	0/3	---	---
Indeno(1,2,3-cd)pyrene	13/24	4/24	Res DEC & GB PMC	AOC-02: SB-07 (0.5-1.75) AOC-03: TP-01 (0-2) AOC-04: SB-02 (0.2-1) & SB-04 (1-2.5)
Naphthalene	3/24	0/3	---	---
Phenanthrene	8/24	0/8	---	---
Pyrene	15/24	0/15	---	---

In general, remedial actions will be required at the sampling locations within the AOCs listed above to address the urban fill impacted with concentrations of PAHs that exceed applicable RSR criteria.

8 Conclusions and Recommendations

The Site investigated as part of the Phase II/III activities discussed herein consists of approximately 16-acres of Windsor Meadows State Park, located at 73 Meadow Road, Windsor, Connecticut. The Site is bounded by Decker's Brook and associated Windsor Meadows State Park trails/access road to the

north, the Connecticut River to the east, Riverfront Land, Inc. (RLI) property to the south (600 Leibert Road, Hartford), and privately owned parcels along Meadow Road to the west (*Figure 2*).

The central portion of the Site (approximately 9 acres) was historically used as agricultural land, until approximately 2019 when Riverfront Recapture began negotiating with the State of Connecticut (who owns the property) to occupy the Site. The land along the western, northern and eastern Site boundaries have historically been forested, with earthen berms constructed along the eastern and western property boundaries for flood control purposes (*Figure 3*).

Fuss & O'Neill's April 2020 *Phase I Environmental Site Assessment* identified four areas of concern (AOCs) associated with historical Site operations, which were evaluated for potential releases as part of the Phase II/III environmental investigations conducted between July 2020 and October 2021. Based on a review of observations made during Phase II/III investigation activities and analytical results from soil and groundwater samples collected, urban fill impacted with PAHs will require remedial action and/or institutional controls at select locations across the Site including within the following AOCs:

- AOC-02 Riverbank Berm
- AOC-03 Western Soil Stockpile/Earthen Berm
- AOC-04 Former Sewer Overflow Branch Manholes/Debris Area

While concentrations of pesticides were reported in shallow soil across the Site at levels that exceeded the GB PMC, the concentrations were consistent with industry standard use applications for agricultural purposes. Based on that fact and that a 95% UCL statistical evaluation performed on the data set from across the Site determined the arithmetic mean of all results from the Site was less than the Res DEC, the PMC does not apply to pesticides at the Site and no further action is warranted with regard to pesticides.

Fuss & O'Neill recommends the preparation of a remedial action plan to address areas of impact during Site redevelopment and reuse.

9 References

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Tables

Table 1
Summary of Areas of Concern
Phase II/III Environmental Site Assessment
Portion of Windsor Meadows State Park
Windsor, Connecticut

AOC	Description	Constituents of Concern (Bold = Release)	Sampling Locations	Release Determination	Phase III Release Characterization	RSR Exceedances	Soil			GW		Recommendations
							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	
AOC-01 Pesticide Use (Agricultural Field/Site-Wide)	The potential exists that pesticides were used across the Site and could remain at varying concentrations in shallow soil, considering that the Site had been used for agricultural purposes since prior to 1934.	Pesticides	<u>Soil</u> SS-01 - SS-18 SS-39 - SS-43 SB-05 SB-06/MW-03 TP-09 TP-10 <u>Groundwater</u> MW-03	Release Identified Varying concentrations of pesticides (including DDE, DDT, Chlordane, Dieldrin and Heptachlor Epoxide) were reported in each of the 45 shallow soil samples collected from this AOC, with concentrations of DDE and DDT detected above the GB PMC in each sample. Concentrations of Chlordane exceeded the GB PMC in 4 samples and Dieldrin was reported above the GBPMC in one soil sample. Pesticides were not detected in Site groundwater.	While concentrations of select pesticides exceed the GB PMC, they are consistent with industry standard application of pesticides for agricultural purposes. Pesticides were not reported in groundwater across the Site over three rounds of groundwater sampling events conducted in 2020 and 2021. This indicates that groundwater has not been negatively impacted by the historical pesticide use at the Site. Considering soil concentrations do not exceed the Res DEC and have not impacted groundwater, the release area is therefore not required to be remediated to the PMC.	4,4'-DDE 4,4'-DDT Chlordane Dieldrin Heptachlor Epoxide	- - - - -	- - - - -	■ ■ - ■ -	- - - - -	- - - - -	Pesticide impacts to shallow soil across the former agricultural field are the result of the industry standard application of pesticides for agricultural purposes. Soil does not exceed DEC and Site groundwater has not been impacted. No further action.

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AOC	Description	Constituents of Concern (Bold = Release)	Sampling Locations	Release Determination	Phase III Release Characterization	RSR Exceedances	Soil				GW		Recommendations
							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	I/C VC	
AOC-02 Riverbank Berm	An apparent non-native earthen ridge/berm was observed along the eastern boundary of the Site, along the Connecticut Riverbank. Fragments of brick, concrete and debris were observed in the southern end of the berm/riverbank. This material appears consistent with the fill material observed in the berm along the river on the adjacent southern property owned and operated by RLI.	RCRA 8 Metals PAHs Pesticides	<u>Soil</u> SS-19 SS-20 HS-03 - HS-06 SB-07 TP-04 - TP-08 <u>Groundwater</u> MW-03	Release Identified Non-native fill material was observed in soil boring SB-07 to a depth of approximately 2 feet below grade, consistent with observations of debris in this area of the AOC. Varying concentrations of pesticides (including DDD, DDE, DDT, Chlordane, Dieldrin, Endrin Ketone and/or Heptachlor Epoxide) were reported in 10 of the 12 soil samples collected from this AOC. Concentrations of DDD, DDE, DDT, Chlordane, Dieldrin and/or Heptachlor epoxide exceeded the GB PMC in 7 of the 12 soil samples. Elevated concentrations of PAHs, exceeding the Res DEC, were reported in one sample from SB-07 (collected from the southern end of the riverbank berm). PAHs were also detected (below RSR criteria) in 6 other samples collected from this AOC. Shallow samples collected from along the top of the riverbank indicate concentrations of PAHs below RSR criteria. Varying levels of metals have been detected in soil samples collected from this AOC at concentrations consistent with background conditions. While concentrations of pesticides and PAHs have been reported above RSR criteria in soil, neither pesticides nor PAHs have been detected in Site groundwater.	Based on visual observations and evaluation of material within test pits and sampling locations, the berm along the riverbank measures approximately 50 x 600 feet and appears to be primarily overgrown native material, likely sourced from excess soil generated on Site. Concentrations of select pesticides exceed the GB PMC in the majority of samples collected from this AOC (10 out of 12), consistent with findings of pesticide impact across other areas of the Site. These concentrations are likely the result of several decades of industry standard application of pesticides across the Site for agricultural purposes. The varying concentrations of PAHs reported in soil appear generally consistent with those detected in the non-native impacted urban fill material encountered in other areas of the Site.	PAHs 4,4'-DDD 4,4'-DDE 4,4'-DDT Chlordane Dieldrin Heptachlor Epoxide	■	-	■	-	-	-	An area with observed debris and fill material along the southern end of the AOC (in the vicinity of SB-07 and TP-04), measuring approximately 35 x 45 feet, has concentrations of PAHs that will require remedial action to be brought into compliance with RSR cleanup objectives.
	-			-	■		-	-	-				
	-			-	■		-	-	-				
	-			-	■		-	-	-				
	-			-	■		-	-	-				
	-			-	■		-	-	-				

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Summary of Areas of Concern
Phase II/III Environmental Site Assessment
Portion of Windsor Meadows State Park
Windsor, Connecticut

AOC	Description	Constituents of Concern (Bold = Release)	Sampling Locations	Release Determination	Phase III Release Characterization	RSR Exceedances	Soil				GW		Recommendations
							Res Dec	I/C DEC	GB PMC	SWPC	Res V/C	I/C V/C	
AOC-03 Western Soil Stockpile/ Earthen Berm	An overgrown stockpile/earthen berm, approximately 150 feet in length, was observed along the southwestern boundary of the Site, which may have historically been used to control flooding from Decker's Brook. Building material debris and general refuse (including empty 5-gallon buckets, plastic furniture, concrete, brick, and asphalt) were identified in and around the stockpile.	RCRA 8 Metals ETPH PCBs VOCs PAHs Pesticides	<u>Soil</u> SS-21 HS-01 HS-02 TP-01 TP-11	Release Identified									Remedial actions will be required to appropriately address impacted shallow soil from the TP-01/HS-02 area (approximately 25 x 40 feet).
				Urban fill was observed at thicknesses between 7-11 feet in test pits TP-01 and TP-11, advanced at the southern and northern ends of the stockpile, respectively.									
				Varying concentrations of pesticides were reported in all of the soil samples collected from this AOC; with concentrations of DDD, DDE, DDT, Chlordane, and/or Dieldrin exceeding the GB PMC in each sample. While pesticide concentrations reported from this area primarily appear consistent with industry standard application, the concentrations of DDT and DDE in HS-01 were reported at levels higher than the average reported across the Site.	With the exception of TP-01, the varying concentrations of PAHs reported in soil appear consistent with those detected in the non-native impacted urban fill material encountered in other areas of the Site.	PAHs	■	-	■	-	-	-	
				Elevated concentrations of PAHs (greater than 10x the Res DEC) were detected at the soil sample collected from TP-01 (0-2 fbg). The concentration of benzo(a)pyrene reported in HS-02 also slightly exceeded RSR criteria. PAHs detected in all other samples from this area were below applicable RSR criteria.	PAHs reported in TP-01 appear indicative of a 'hot spot' within the fill material (approximately 25 x 40 feet) which should be addressed through remedial action.	4,4'-DDD	-	-	■	-	-	-	
				Varying concentrations of metals were detected in the soil samples from this AOC at levels consistent with background conditions.		4,4'-DDE	-	-	■	-	-	-	
				ETPH, PCBs, and VOCs were not detected in soil samples collected from this AOC.		4,4'-DDT	-	-	■	-	-	-	
						Chlordane	-	-	■	-	-	-	
						Dieldrin	-	-	■	-	-	-	

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Portion of Windsor Meadows State Park
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AOC	Description	Constituents of Concern (Bold = Release)	Sampling Locations	Release Determination	Phase III Release Characterization	RSR Exceedances	Soil			GW		Recommendations
							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	
AOC -04 Former Sewer Overflow Branch Manholes/ Debris Area	An area of accumulated debris was observed in eastern portion of this AOC. Debris identified included discarded tires, building material (concrete, brick and asphalt) and general refuse.	RCRA 8 Metals ETPH PCBs VOCs PAHs Pesticides	<u>Soil</u> SB-02 SB-03/MW-02 SB-04 TP-02 TP-03 <u>Groundwater</u> MW-02	Release Identified	The reported concentrations of pesticides from this area appear generally consistent with the industry standard application of pesticides for agricultural purposes, with slightly elevated concentrations reported in samples from test pit TP-03.	PAHs						Remedial actions will be required to appropriately address the PAHs impacted fill, from an area measuring approximately 15 x 75 feet to a depth of about 4 feet below grade.
	Fill material was identified in borings SB-02 – SB-04 to depths of approximately 4-5 feet below grade.											
	Varying concentrations of pesticides were reported in each soil sample collected from this AOC with the exception of the sample from SB-02. Concentrations of DDD, DDE, DDT, and/or Chlordane were reported at concentrations exceeding RSR criteria in samples from SB-03/MW-02 and SB-04. Pesticides were reported below RSR criteria in the sample submitted from TP-02.											
	Elevated concentrations of pesticides were reported in the two samples from TP-03. The highest concentrations were reported in the sample from 2-4 feet below grade at this location.											
	PAHs were reported in each sample analyzed with concentrations above RSR criteria in the samples SB-02 (0.2-1”) and SB-04 (1-2.5”). PAHs were reported at concentrations below RSR criteria in the remaining samples from SB-03/MW-02, TP-02 and TP-03.											
	ETPH was detected at a low concentration, below RSR criteria, in sample TP-03 (0-2”).											
	VOCs were primarily not detected in any sample analyzed with the exception of naphthalene, which was detected at a trace concentration, below applicable criteria, in the sample collected from SB-02.											
	Varying concentrations of metals were detected in the soil samples from this AOC at levels consistent with background conditions.											

Notes:

PAHs = polycyclic aromatic hydrocarbons
VOCs = volatile organic compounds
ETPH = extractable total petroleum hydrocarbons
RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver)

PCBs = polychlorinated biphenyls
Res DEC = Residential direct exposure criteria
PMC = pollutant mobility criteria

SWPC = surface water protection criteria
VC = residential volatilization criteria
---- = no RSR exceedance identified



Table 2
Monitoring Well Construction Details and Groundwater Elevation Data

Portion of Windsor Meadows State Park
Riverfront Recapture, LLC
Windsor, CT

Monitoring Well ID	Completion Date	Well Diameter (in)	Well Depth (fbg)	Screened Interval (fbg)	Measuring Point Elevation (ft)	Gauging Date	Depth to Water (fbg)	Groundwater Elevation (ft)
MW-01	8/18/2020	1.5	13	13-3	19.83	8/26/2020	13.44	6.39
						3/1/2021	5.56	14.27
						10/8/2021	6.00	13.83
MW-02	8/18/2020	1.5	20	20-10	22.40	8/26/2020	18.91	3.49
						3/1/2021	14.49	7.91
						10/8/2021	16.01	6.39
MW-03	8/18/2020	1.5	20	20-10	20.72	8/26/2020	19.55	1.17
						3/1/2021	16.93	3.79
						10/8/2021	15.72	5.00

Notes:

Monitoring well measuring point elevations are based on vertical datum NAVD88.

Monitoring well measuring point elevations and depth to water measurements are based on measurements to top of the PVC riser

NM indicates "not measured" due to the wells being inaccessible

in - inch, ft - feet

fbg - feet below grade



Table 3A
Summary of Soil Analytical Results
AOC-01 - Former Agricultural Field

Portion of Windsor Meadows State Park
Riverfront Recapture, LLC
Windsor, Connecticut

Sample Location: Sample Depth (ft): Sample Date: Sample No.:			SS-01		SS-02		SS-03		SS-04		SS-05		SS-06		SS-07		SS-08		SS-09	
			0-0.25 7/23/2020 1622200723-01	1-1.5 7/23/2020 1622200723-29	0-0.25 7/23/2020 1622200723-02	1-1.5 7/23/2020 1622200723-30	0-0.25 7/23/2020 1622200723-03	1-1.5 7/23/2020 1622200723-31	0-0.25 7/23/2020 1622200723-04	1-1.5 7/23/2020 1622200723-32	0-0.25 7/23/2020 1622200723-05	1-1.5 7/23/2020 1622200723-33	0-0.25 7/23/2020 1622200723-06	1-1.5 7/23/2020 1622200723-34	0-0.25 7/23/2020 1622200723-07	1-1.5 7/23/2020 1622200723-35	0-0.25 7/23/2020 1622200723-08	1-1.5 7/23/2020 1622200723-36	0-0.25 7/23/2020 1622200723-09	1-1.5 7/23/2020 1622200723-37
CONSTITUENTS			CT DEEP RSRs																	
			DEC RES	GB PMC																
Pesticides (ug/kg)																				
4,4' -DDD			[1,800]	[20]	< 11	< 9.2	< 8.4	< 7.3	< 7.4	< 9.2	< 7.0	8.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
4,4' -DDE			[1,800]	[20]	100	110	58	51	110	160	66	120	57	75	91	170	73	170	93	140
4,4' -DDT			[1,800]	[20]	89	93	31	36	100	130	59	100	45	57	82	120	72	150	110	150
a-BHC			340	10	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Alachlor			7,700	400	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Aldrin			40	10	< 3.6	< 3.6	< 3.6	< 3.6	< 3.5	< 3.6	< 3.5	< 3.5	< 3.6	< 3.5	< 3.5	< 3.6	< 3.7	< 3.7	< 3.5	< 3.5
b-BHC			340	10	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Chlordane			490	66	46	58	< 36	< 36	< 35	43	< 35	72	< 36	< 35	45	74	< 37	41	< 35	52
d-BHC			340	10	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Dieldrin			38	7	< 3.6	< 3.6	5.7	6.3	< 3.5	< 3.6	< 3.5	< 3.5	< 3.6	< 3.5	< 3.5	< 3.6	< 3.7	< 3.7	< 3.5	< 3.5
Endosulfan I			[41,000]	[840]	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Endosulfan II			41,000	840	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Endosulfan sulfate			41,000	840	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Endrin			20,000	400	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Endrin aldehyde			20,000	400	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Endrin ketone			20,000	400	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
g-BHC			20,000	40	< 1.4	< 6.1	< 1.4	< 1.5	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.5	< 1.4	< 1.4
Heptachlor			140	13	< 7.2	< 7.2	< 7.1	< 7.3	< 6.9	< 7.2	< 7.0	< 7.1	< 7.2	< 7.0	< 7.1	< 7.2	< 7.5	< 7.4	< 6.9	< 6.9
Heptachlor epoxide			67	20	9.2	9.7	< 7.1	< 7.3	< 6.9	< 8.9	< 7.0	12	< 7.2	< 7.3	8.8	11	< 7.5	< 9.6	< 6.9	9.4
Methoxychlor			340,000	8,000	< 36	< 36	< 36	< 36	< 35	< 36	< 35	< 35	< 36	< 35	< 35	< 36	< 37	< 37	< 35	< 35
Toxaphene			560	600	< 140	< 140	< 140	< 150	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 140	< 150	< 150	< 140	< 140

Sample Location: Sample Depth (ft): Sample Date: Sample No.:			SS-10		SS-11		SS-12		SS-13		SS-14		SS-15		SS-16		SS-17		SS-18	
			0-0.25 7/23/2020 1622200723-10	1-1.5 7/23/2020 1622200723-11	0-0.25 7/23/2020 1622200723-12	1-1.5 7/23/2020 1622200723-13	0-0.25 7/23/2020 1622200723-14	1-1.5 7/23/2020 1622200723-15	0-0.25 7/23/2020 1622200723-16	1-1.5 7/23/2020 1622200723-17	0-0.25 7/23/2020 1622200723-18	1-1.5 7/23/2020 1622200723-19	0-0.25 7/23/2020 1622200723-20	1-1.5 7/23/2020 1622200723-21	0-0.25 7/23/2020 1622200723-22	1-1.5 7/23/2020 1622200723-23	0-0.25 7/23/2020 1622200723-24	1-1.5 7/23/2020 1622200723-25	0-0.25 ^D 7/23/2020 1622200723-26/-28	1-1.5 7/23/2020 1622200723-27
CONSTITUENTS			CT DEEP RSRs																	
			DEC RES	GB PMC																
Pesticides (ug/kg)																				
4,4' -DDD			[1,800]	[20]	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 9.0	< 8.0	< 7.6	< 7.1	< 7.2	< 7.5	< 7.2
4,4' -DDE			[1,800]	[20]	34	73	51	52	66	77	37	42	55	66	74	73	65	70	44	42
4,4' -DDT			[1,800]	[20]	39	71	40	51	64	76	27	31	39	49	70	71	44	56	46	40
a-BHC			340	10	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Alachlor			7,700	400	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Aldrin			40	10	< 3.5	< 3.7	< 3.3	< 3.4	< 3.4	< 3.5	< 3.5	< 3.6	< 3.5	< 3.6	< 3.6	< 3.6	< 3.3	< 3.6	< 3.7	< 3.6
b-BHC			340	10	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Chlordane			490	66	< 35	39	< 33	< 34	50	55	< 35	< 36	< 35	50	49	51	< 33	< 36	< 37	< 36
d-BHC			340	10	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Dieldrin			38	7	< 3.5	< 3.7	< 3.3	< 3.4	< 3.4	< 3.5	< 3.5	< 3.6	< 3.5	< 3.6	< 3.6	< 3.6	< 3.3	< 3.6	< 3.7	< 3.6
Endosulfan I			[41,000]	[840]	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Endosulfan II			41,000	840	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Endosulfan sulfate			41,000	840	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Endrin			20,000	400	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Endrin aldehyde			20,000	400	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Endrin ketone			20,000	400	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
g-BHC			20,000	40	< 1.4	< 1.5	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.5	< 1.4	< 1.3	< 1.4	< 1.5	< 1.4
Heptachlor			140	13	< 7.1	< 7.3	< 6.7	< 6.9	< 6.8	< 7.0	< 7.0	< 7.2	< 7.0	< 7.2	< 7.3	< 7.2	< 6.7	< 7.2	< 7.5	< 7.2
Heptachlor epoxide			67	20	< 7.1	< 7.3	< 6.7	< 6.9	7.6	12	< 7.0	< 7.2	< 7.0	< 7.3	8.1	7.6	< 6.7	8.6	< 7.5	< 7.2
Methoxychlor			340,000	8,000	< 35	< 37	< 33	< 34	< 34	< 35	< 35	< 36	< 35	< 36	< 36	< 36	< 33	< 36	< 37	< 35
Toxaphene			560	600	< 140	< 150	< 130	< 140	< 140	< 140	< 140	< 140	< 140	< 150	< 140	< 140	< 130	< 140	< 150	< 140

Table 3B
Summary of Soil Analytical Results
AOC-02, AOC-03 and AOC-04

Portion of Windsor Meadows State Park
Riverfront Recapture, LLC
Windsor, Connecticut

Sample Location Sample Depth (feet) Sample Date Sample Number			Background	AOC-02 - Riverbank Berm														AOC-03 - Western Soil Stockpile/ Earthen Berm						AOC-04 - Former Sewer Overflow Branch Manholes/ Debris Area																				
			SB-01/MW-01	SB-07	SS-19	SS-20	TP-04		TP-05	TP-06	TP-07	TP-08	HS-03	HS-04	HS-05	HS-06	SS-21	TP-01		TP-11	HS-01	HS-02	SB-03/MW-02	SB-02	SB-04	TP-02	TP-03																	
			3-4.2	0.5-1.75 ^b	1-1.5	1-1.5	0-2	4-6	0-2	0-2	0-2	2-4	0-1	0-1	0-1	0-1	1-1.5	0-2	2-4	0-2	0-0.5	0-0.5	0.5-2.5	0.2-1	1-2.5	0-2	0-2	2-4																
			8/18/2020	8/17/2020	8/17/2020	8/17/2020	10/15/2021	10/15/2021	10/15/2021	10/15/2021	10/15/2021	10/15/2021	10/15/2021	10/15/2021	10/15/2021	10/15/2021	8/17/2020	10/15/2021	10/15/2021	10/15/2021	10/15/2021	10/15/2021	8/17/2020	8/17/2020	8/17/2020	10/15/2021	10/15/2021	10/15/2021																
			1305200818-27	1305200817-09/10	1305200817-18	1305200817-19	1643211015-09	1643211015-10	1643211015-11	1643211015-13	1643211015-15	1643211015-35	1643211015-26	1643211015-27	1643211015-28	1643211015-29	1305200817-20	1643211015-03	1643211015-04	1643211015-24	1643211015-01	1643211015-02	1305200817-13	1305200817-06	1305200817-05	1643211015-05	1643211015-07	1643211015-08																
CONSTITUENTS			CT DEEP RSRs																																									
			DEC RES	GB PMC																																								
Metals, Total (mg/Kg)																																												
10	N/A	1.6	3.92	4.01	4.42	5.64	---	4.09	3.68	3.69	1.9	2.62	3.24	3.51	3.34	4.55	7.06	---	3.57	3.45	2.78	4.58	2.7	2.77	3.52	6.62	---																	
Barium	N/A	36.9	100	62.3	68	84.1	---	68.5	63.4	41	52.1	47.9	63.7	62.8	60.2	63.3	94.8	---	33.1	64.7	58.1	69.3	44.1	41.3	63.4	97.1	---																	
Cadmium	N/A	0.65	0.91	1.5	1.55	1.15	---	0.93	1.03	0.55	0.78	0.61	0.7	0.78	0.78	1.38	1.31	---	0.57	0.78	0.48	1.59	0.63	0.84	0.54	1.16	---																	
Chromium	N/A	18.3	19.8	23.2	26.1	33.4	---	30.4	24.3	19.6	18.8	21	26	26.9	25.6	25.4	211	---	19.9	30.8	31.9	22.8	15.7	11.3	27.1	31.7	---																	
Lead	N/A	7.67	129	28.6	35	31	---	30.8	31.4	16.8	6.07	18.3	13.1	24	20.7	29.7	78.1	---	16.4	39.5	33.7	64.3	20.4	41.4	17	80.9	---																	
Mercury	N/A	< 0.08	0.14	0.12	0.12	0.07	---	0.04	0.06	0.05	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.17	0.12	---	< 0.03	0.23	0.03	0.06	0.55	0.05	0.05	0.17	---																	
Selenium	N/A	< 1.6	< 1.5	< 1.5	< 1.4	< 1.4	---	< 1.6	< 1.6	< 1.4	< 1.6	< 1.4	< 1.6	< 1.7	< 1.7	< 1.4	< 1.4	---	< 1.5	< 1.5	< 1.7	< 1.5	< 1.5	< 1.4	< 1.7	< 1.6	---																	
Silver	N/A	< 0.41	< 0.38	< 0.37	< 0.36	< 0.35	---	< 0.40	< 0.39	< 0.34	< 0.40	< 0.35	< 0.41	< 0.41	< 0.42	< 0.35	< 0.36	---	< 0.36	< 0.39	< 0.42	< 0.38	< 0.37	< 0.35	< 0.42	< 0.41	---																	
VOCs (ug/Kg)																																												
Naphthalene	1,000,000	56,000	< 61	---	---	---	---	---	---	---	---	---	---	---	---	< 53	< 290	---	< 59	< 300	< 290	< 4.6	300	< 270	< 4.7	---	---																	
CT ETPH (mg/Kg)																																												
Extractable Total Petroleum Hydrocarbons (C9-C36)	500	2,500	< 400	---	---	---	< 57	---	< 58	< 55	< 56	< 59	< 57	< 63	< 59	< 62	< 360	< 390	---	< 400	---	---	< 260	< 260	< 260	< 60	100	---																
PCBs (ug/Kg)																																												
Total PCBs	1,000	5**	< 4.9	---	---	---	---	---	---	---	---	---	< 380	---	---	< 420	< 360	< 390	---	< 400	---	---	< 350	< 330	< 350	< 400	---	---																
PAHs (ug/Kg)																																												
2-Methylnaphthalene	270,000	5,600	< 280	< 240	< 250	< 250	< 270	---	< 270	< 260	< 260	< 280	< 260	< 290	< 280	< 250	< 270	< 260	< 280	< 280	< 270	< 240	< 240	< 2400	< 290	< 280	---																	
Acenaphthene	[1,000,000]	[84,000]	< 280	< 240	< 250	< 250	< 270	---	< 270	< 260	< 260	< 280	< 260	< 290	< 280	< 250	< 270	< 260	< 280	< 280	< 270	< 240	< 240	< 2400	< 290	< 280	---																	
Acenaphthylene	1,000,000	84,000	< 280	2,500	< 250	< 250	< 270	---	< 270	< 260	< 260	< 280	< 260	< 290	< 280	< 250	4,300	< 260	< 280	400	< 270	< 240	1,300	< 2400	< 290	< 280	---																	
Anthracene	1,000,000	400,000	< 280	1,700	< 250	< 250	< 270	---	< 270	< 260	< 260	< 280	< 260	< 290	< 280	< 250	2,600	< 260	< 280	< 280	< 270	< 240	680	< 2400	< 290	< 280	---																	
Benzo(a)anthracene	1,000	1,000	< 280	3,600	< 250	< 250	< 270	---	480	< 260	< 260	< 280	< 260	< 290	< 280	300	280	15,000	< 260	< 280	880	700	400	1,300	1,400	< 290	580	---																
Benzo(a)pyrene	1,000	1,000	< 280	3,900	< 250	< 250	290	---	540	< 260	< 260	< 280	< 260	< 290	< 280	340	380	15,000	< 260	< 280	1,000	1,100	480	1,800	2,400	< 290	700	---																
Benzo(b)fluoranthene	1,000	1,000	< 280	3,400	< 250	< 250	< 270	---	440	< 260	< 260	< 280	< 260	< 290	< 280	290	370	12,000	< 260	< 280	910	990	370	1,500	1,500	< 290	570	---																
Benzo(g,h,i)perylene	[8,400]	[1,000]	< 280	2,500	< 250	< 250	310	---	420	< 260	< 260	< 280	< 260	< 290	< 280	< 280	290	9,800	< 260	< 280	700	940	420	1,400	2,200	< 290	600	---																
Benzo(k)fluoranthene	8,400	1,000	< 280	2,600	< 250	< 250	< 270	---	480	< 260	< 260	< 280	< 260	< 290	< 280	300	270	6,600	< 260	< 280	890	1,000	440	1,200	1,800	< 290	620	---																
Chrysene	[84,000]	[1,000]	< 280	3,500	< 250	< 250	< 270	---	500	< 260	< 260	< 280	< 260	< 290	< 280	310	330	15,000	< 260	< 280	1,000	780	400	1,400	1,400	< 290	630	---																
Dibenz(a,h)anthracene	[1,000]	[1,000]	< 280	700	< 250	< 250	< 270	---	< 270	< 260	< 260	< 280	< 260	< 290	< 280	< 250	2,800	< 260	< 280	< 280	< 270	290	350	< 600	< 290	< 280	---																	
Fluoranthene	1,000,000	56,000	< 280	5,700	< 250	< 250	290	---	900	< 260	< 260	< 280	< 260	< 290	< 280	520	400	25,000	< 260	< 280	1,300	930	750	1,900	< 2400	< 290	910	---																
Fluorene	1,000,000	56,000	< 280	510	< 250	< 250	< 270	---	< 270	< 260	< 260	< 280	< 260	< 290	< 280	< 250	780	< 260	< 280	< 280	< 270	< 240	270	< 2400	< 290	< 280	---																	
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	< 280	2,500	< 250	< 250	290	---	450	< 260	< 260	< 280	< 260	< 290	< 280	300	< 260	< 280	< 280	< 280	760	980	510	1,300	1,600	< 290	640	---																
Naphthalene	1,000,000	56,000	< 280	280	< 250	< 250	< 270	---	< 270	< 260	< 260	< 280	< 260	< 290	< 280	< 250	570	< 260	< 280	< 280	< 270	< 240	260	< 2400	< 290	< 280	---																	
Phenanthrene	1,000,000	40,000	< 280	3,200	< 250	< 250	< 270	---	340	< 260	< 260	< 280	< 260	< 290	< 280	< 250	5,500	< 260	< 280	< 280	< 270	< 240	440	< 2400	< 290	< 280	---																	
Pyrene	1,000,000	40,000	< 280	5,800	< 250	260	310	---	840	< 260	< 260	< 280	< 260	< 290	< 280	430	26,000	< 260	< 280	1,300	930	710	2,800	2,700	< 290	910	---																	
Pesticides By SW8081B (ug/Kg)																																												
4,4'-DDD	[1,800]	[20]	< 8.0	< 8.2	< 8.5	< 7.2	22	< 1.6	< 1.5	< 1.5	1.7	< 1.6	< 1.5	< 1.7	< 1.6	< 1.7	12	34	5.6	< 1.6	37	< 1.5	< 6.9	< 6.8	31	< 1.6	< 1.6	57																
4,4'-DDE	[1,800]	[20]	< 8.0	< 8.5	83	55	260	< 1.6	190	70	52	< 1.6	4.4	< 1.7	6.9	< 1.7	82	95	41	26	370	18	28	< 6.8	110	120	170	---																
4,4'-DDT	[1,800]	[20]	< 8.0	< 19	46	45	280	< 1.6	200	37	41	< 1.6	8.5	< 1.7	10	4.8	51	240	130	41	610	43	28	< 6.8	95	180	270	---																
a-BHC	340	10	< 8.0	< 6.8	< 7.1	< 7.2	< 1.6	< 1.6	< 1.5	< 1.5	< 1.5	< 1.6	< 1.5	< 1.7	< 1.6	< 1.7	< 7.1	< 1.6	< 1.5	< 1.6	< 1.6	<																						



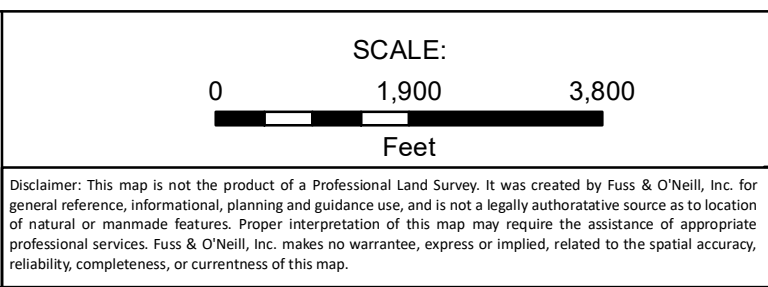
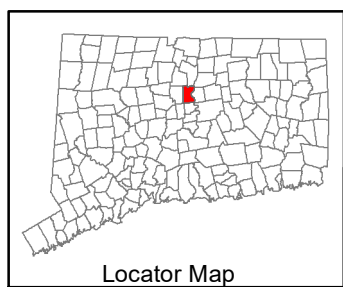
Table 4
Summary of Grounwater Analytical Results

Portion of Windsor Meadows State Park
Riverfront Recapture, LLC
Windsor, CT

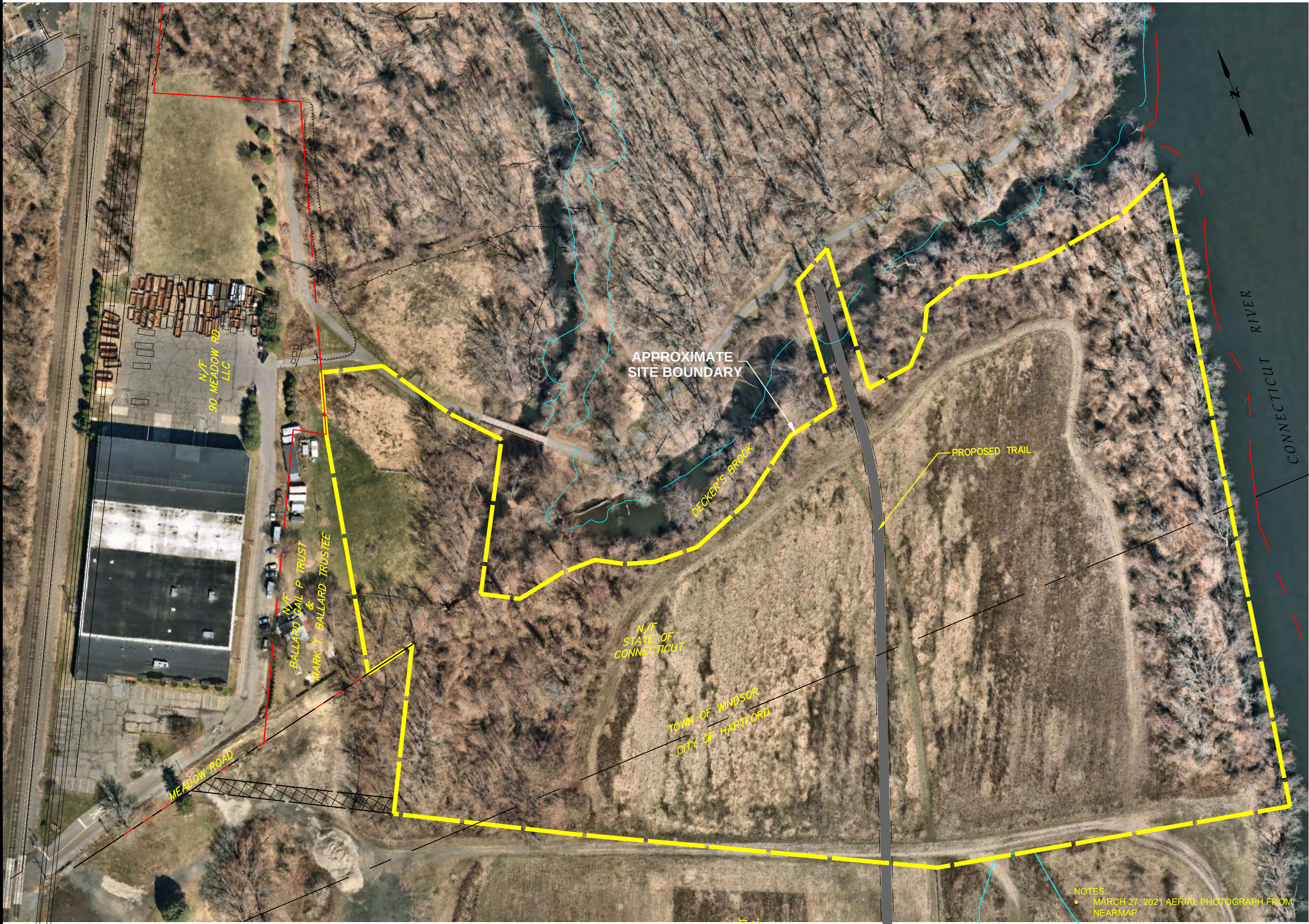
Sample Location			MW-01			MW-02			MW-03		
Sample Date			8/26/2020	3/1/2021	10/8/2021	8/26/2020	3/1/2021	10/8/2021 ^{DUP}	8/26/2020	3/1/2021	10/8/2021
Sample Number			1305200826-08	1305210301-11	1643211008-04	1305200826-07	1305210301-10	1643211008-01/02	1305200826-06	1305210301-09	1643211008-03
CONSTITUENTS	CT DEEP RSRs										
	Res VC	SWPC									
Metals (mg/L)											
Arsenic	NE	0.004	< 0.004	<0.004	< 0.004	< 0.004	<0.004	< 0.004	< 0.004	<0.004	< 0.004
Barium	NE	[2.2]	0.032	0.056	0.08	0.065	0.079	0.055	0.059	0.025	0.02
Cadmium	NE	0.006	< 0.001	<0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001	< 0.001
Chromium	NE	0.11	0.003	<0.001	< 0.001	0.001	0.001	< 0.001	< 0.001	0.002	0.001
Mercury	NE	0.0004	< 0.0002	<0.0002	< 0.002	< 0.0002	<0.0002	< 0.002	< 0.0002	<0.0002	< 0.002
Lead	NE	0.013	< 0.002	<0.002	< 0.0002	< 0.002	<0.002	< 0.0002	< 0.002	<0.002	< 0.0002
Selenium	NE	0.05	< 0.010	<0.010	< 0.010	< 0.010	<0.010	< 0.010	< 0.010	<0.010	< 0.010
Silver	NE	0.012	< 0.001	<0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	<0.001	< 0.001
ETPH (mg/L)											
Extractable Total Petroleum Hydrocarbons	NE	0.25	<0.074	<0.074	<0.076	<0.072	<0.069	<0.074	<0.075	<0.077	<0.074
VOCs (ug/L)											
Total Volatile Organic Compounds	Varies	Varies	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PAHs (ug/L)											
Polycyclic Aromatic Hydrocarbons	Varies	Varies	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pesticides (ug/L)											
Pesticides	Varies	Varies	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Notes:
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
mg = milligram; L = Liter; ug = microgram
CT DEEP RSRs = CT Department of Energy & Environmental Protection Remediation Standard Regulations
Res VC = Residential Volatilization Criteria
SWPC = Surface Water Protection Criteria
[Green Text] = DEEP fast-track approveable additional polluting substances; DEEP approval required
NE = Criteria not established
BDL = Below laboratory detection limits
PAHs = Polynuclear Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds

Figures



File: S:\DWG\2017\A30\Environmental\Plan\20170277A30_SAM01_aerial.dwg Layout: 11x17-L (R:16Lx) Plotted: 2021-10-29 1:16 PM Saved: 2021-10-29 1:11 PM User: Sprocket
MS View: PC3 AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 STB/CTB-FO HALF STB LAYER STATE



NOTES:
• MARCH 27, 2021 AERIAL PHOTOGRAPH FROM NEARMAP

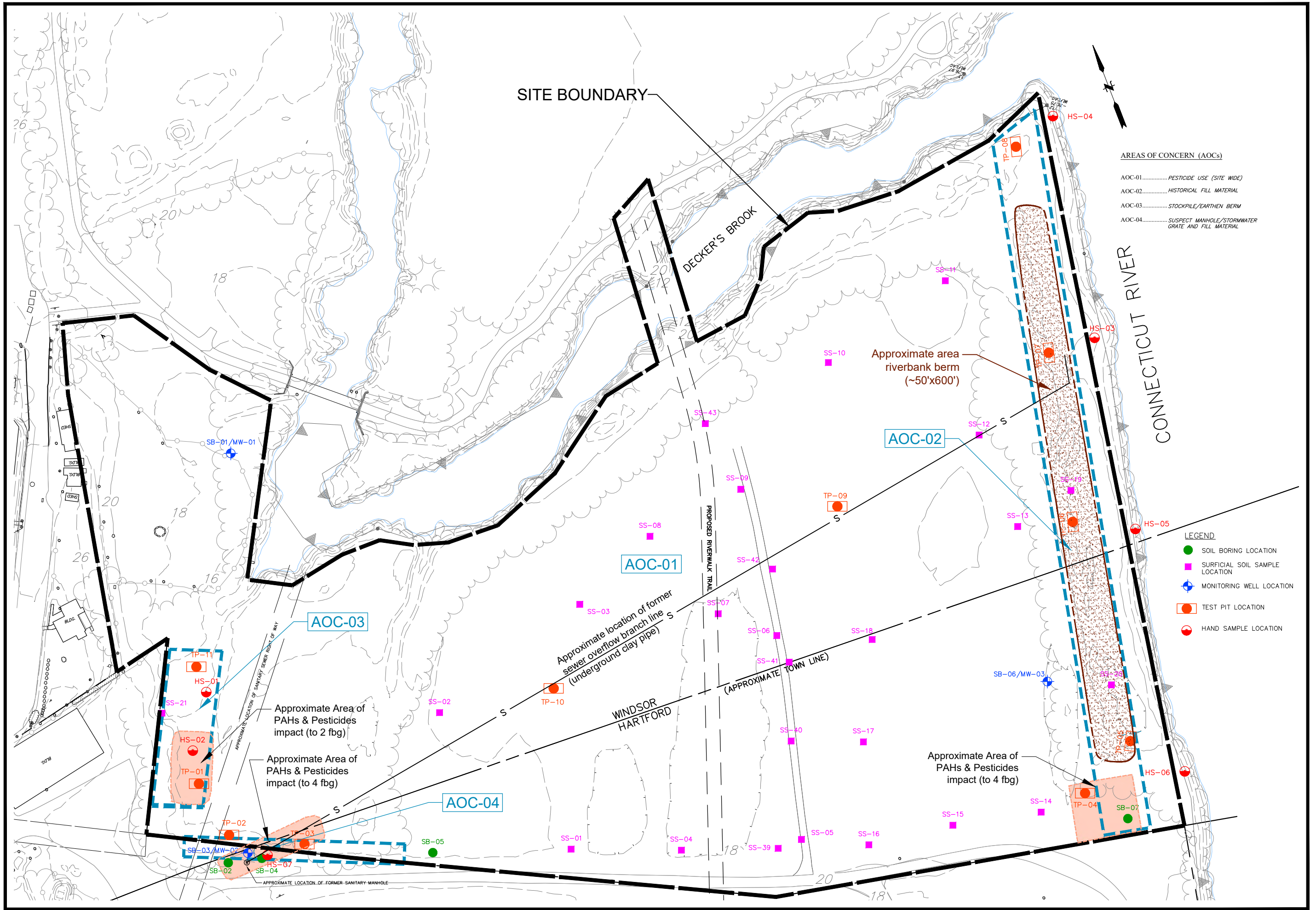
SCALE:	HORZ.: 1" = 120'
	VERT.:
DATUM:	HORZ.:
	VERT.:
	0 60 120
	GRAPHIC SCALE

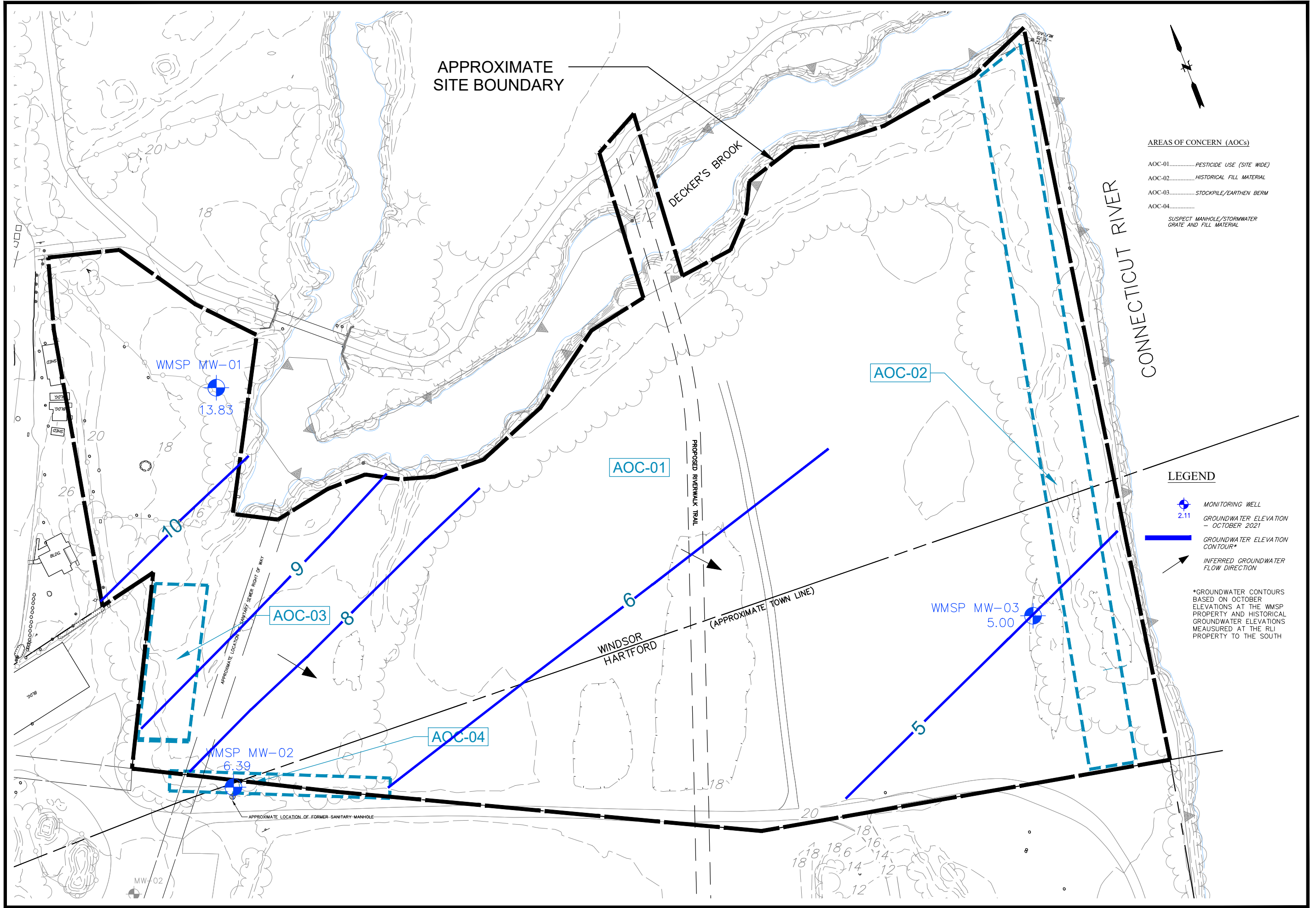
FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fandob.com

CURRENT SITE CONDITIONS AERIAL
WMSP PROPERTY
HARTFORD AND WINDSOR
CONNECTICUT

PROJ. No.: 20170277A30
DATE: NOVEMBER 2021

FIGURE 2





Appendix A

Boring Logs, Monitoring Well Completion Reports & Test Pit Logs



FUSS & O'NEILL

BORING LOG

Project Name: RLI and Windsor Meadows State Park

Project Location: Hartford and Windsor, CT

Location ID: S3-02

Sheet #: 1 of 1

Project #: 20170277.A30

Weather: 70s, clear

Contractor: Cisco Geotech
 Operator: Chris + Noah
 F&O Representative: BSC/AF
 Drilling Method: Truck Mount
 Sampling Method: Dedicated gloves/terracores
 Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See map
 Date Started: 8/17/2020
 Date/Time Completed: 8/17/2020 @ 1000
 Depth to Saturated Zone: 71.7'
 Sample # Prefix: 13052008 17 - 06

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO-LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0		20/48	0-6.2	Topsoil, sand f-m, tr wood, & gravel, loose, dry, brown no odor	0				
			6.2-1.3	sand f-m, tr gravel, tr concrete, tr brick, loose, dry, no odor brown			-06 1005	6.2-1.	1xG802 3xVCR
			1.3-1.7	brick					
			1.7	refusal					

BORING DIAMETER <u>2"</u>	BORING METHOD <u>Truck Mount</u>	BORING DEPTH <u>1.7'</u>	REMARKS Field Instrument = <u>PID/OVM</u> If refusal is encountered, describe all efforts used to confirm. Field Decon: Yes / No / <u>Dedicated Device</u>
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltd) 10 to 20% And 35 to 50%			BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/ <u>Native Material</u> <u>1.7</u> To <u>0</u> Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltd silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff: _____			



FUSS & O'NEILL

BORING LOG

Project Name: RLI and Windsor Meadows State Park

Project Location: Hartford and Windsor, CT

Location ID: SB-03(MW-02)

Sheet #: of

Project #: 20170277.A30

Weather: _____

Contractor: Cisco Geotech

Operator: Chris

F&O Representative: BSC/AF

Drilling Method: Truck Mount

Sampling Method: Dedicated gloves/terracores

Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: _____

Date Started: 8/17/2020

Date/Time Completed: 8/17/2020 @

Depth to Saturated Zone: _____

Sample # Prefix: 13052008 17 - 13 MS/MSD

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO-LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0	32/48		0-2.5	Sand (F-m), lt. gravel, dry, loose, tri asphaltic to brick, no odor, tan	0	Sw	-13 1117	0.5-2.5	3 v. A 8026 (K3)
			2.5-2.5	Brick					
			2.5-4	No Recover					
4	28/48		4-4.5	Brick					
			4.5-6.75	~~Same as 0-2.25~~ Sand (F-m), tri. gravel, dry, loose, no odor, tan					
			6.75-8						
8	30/48		8-9.5	Same as 4.5-6.75, lt. silt		Sw			
			9.5-10.5	Same as 4.5-6.75, lt. silt, wet		Sw			
			10.5-12	No Recover					
				EUB @ 12'					

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS
2"	Truck Mount		Field Instrument = <u>PID/OVM</u> If refusal is encountered, describe all efforts used to confirm.
			Field Decon: Yes / No / <u>Dedicated Device</u>
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ld) 10 to 20% And 35 to 50%			BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings <u>(Native Material)</u> _____ To <u>0</u> Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ld silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor.			
Reviewed by Staff: _____			



FUSS & O'NEILL

BORING LOG

Project Name: RLI and Windsor Meadows State Park

Project Location: Hartford and Windsor, CT

Location ID: SB-04
 Sheet #: of
 Project #: 20170277.A30
 Weather: 70s. clear

Contractor: Cisco Geotech
 Operator: Chris + Noah
 F&O Representative: BSC/AF
 Drilling Method: Truck Mount
 Sampling Method: Dedicated gloves/terracores
 Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See map
 Date Started: 8/17/2020
 Date/Time Completed: 8/17/2020 @ 0945
 Depth to Saturated Zone: 24'
 Sample # Prefix: 13052008 17-05

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO-LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0		30/48	0-0.3	Topsoil - sand f-m, tr wood, tr gravel, loose, dry, no odor, brown	0	F1			
			0.3-0.8	concrete, tr sand f-m, loose, dry, no odor		F1			
			0.8-1.1	sand f-c and asphalt, loose, dry, no odor, black		F1	-05 1000	1.1-2.5	kg 807 3xVOR
			1.1-2.1	sand f-c, ltl gravel, tr asphalt, tr brick, loose, dry, no odor, brown		F1			
			2.1-3	sand f-m, ltl silt, tr gravel, tr brch, loose, dry, no odor, brown		F1			
			3-4	no recovery					
				refusal at 4'					

BORING DIAMETER 2"	BORING METHOD Truck Mount	BORING DEPTH 4'	REMARKS Field Instrument = <u>PID/OVM</u> If refusal is encountered, describe all efforts used to confirm. Field Decon: Yes / No / <u>Dedicated Device</u>
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ld) 10 to 20% And 35 to 50%			BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cutting <u>Native Material</u> <u>4</u> To <u>0</u> Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff:			



FUSS & O'NEILL

BORING LOG

Project Name: RLI and Windsor Meadows State Park

Project Location: Hartford and Windsor, CT

Location ID: SB-05
Sheet #: 1 of 1
Project #: 20170277.A30
Weather: 70s clear

Contractor: Cisco Geotech
Operator: Chris
F&O Representative: BSC/AF
Drilling Method: Truck Mount
Sampling Method: Dedicated gloves/terracores
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See map
Date Started: 8/17/2020
Date/Time Completed: 8/17/2020 @ 1010
Depth to Saturated Zone: 24'
Sample # Prefix: 13052008 17 - 07/-08

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO-LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0-3.75	Sand f-m, tr grass, tr silt, loose, dry, no odor, light brown	0				
			3.75-4	no recovery			-07 1015	0-0.5' 1x G802	
			4'	EOB			-08 1020	1.5-2' (HOLD) 1x G802	

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS
2"	GEOPROBE	4'	Field Instrument = <u>PID/OVM</u> If refusal is encountered, describe all efforts used to confirm.
			Field Decon: Yes / No / <u>Dedicated Device</u>

PROPORTIONS USED:

Trace (tr) 0 to 10% Some (sm) 20 to 35%
Little (ltl) 10 to 20% And 35 to 50%

EXAMPLE DESCRIPTION:
SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft.
Loose. No odor.

Reviewed by Staff:

BACKFILL

Asphalt / Concrete _____ To _____ See Monitoring Well
Bentonite Grout/Chips _____ To _____ Completion Report
Cuttings/ Native Material 4 To 0
Other _____ To _____



FUSS & O'NEILL

BORING LOG

Project Name: RLI and Windsor Meadows State Park

Project Location: Hartford and Windsor, CT

Location ID: SB-06 (MH-03)

Sheet #: 1 of 1

Project #: 20170277.A30

Weather: 70s, clear

Contractor: Cisco Geotech

Operator: Chris + Noah

F&O Representative: BSC/AF

Drilling Method: Truck Mount

Sampling Method: Dedicated gloves/terracores

Hammer Weight: Hammer Fall (inches):

Location Description: See map

Date Started: 8/17/2020

Date/Time Completed: 8/17/2020 @

Depth to Saturated Zone:

Sample # Prefix: 13052008 17 - 11/12

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO-LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0		36/48	0-3	Sand (F-M), tr. gravel, tr. grass, dry, loose, no odor, tan	0	SP	-11 -12 10/16/10/17	0-0.75 2-3	8026 8026
			3-4	No Recovery					
4		42/48	4-5.5	Same as 0-3		SP			
			5.5-7.5	Same as 0-3, wet moist		SP			
			7.5-8	No Recovery					
8		40/48	8-9.75	Same as 5.5-7.5 ~~8-9.75~~		SP			
			9.75-11.25	Same as 0-3, wet, 1H. Silt clay		SP			
			11.25-12	No Recovery					
				EOB @ 12'					

BORING DIAMETER 2"	BORING METHOD Truck Mount	BORING DEPTH	REMARKS Field Instrument = PID/DVM If refusal is encountered, describe all efforts used to confirm. Field Decon: Yes / No / <u>Dedicated Device</u>
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (lt) 10 to 20% And 35 to 50%			BACKFILL Asphalt / Concrete _____ To _____ See Monitoring Well Bentonite Grout/Chips _____ To _____ Completion Report Cuttings/Native Material _____ To _____ Other _____ To _____
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; lt silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff:			



FUSS & O'NEILL

BORING LOG

Project Name: RLI and Windsor Meadows State Park

Project Location: Hartford and Windsor, CT

Location ID: SB-07

Sheet #: 1 of 1

Project #: 20170277.A30

Weather: 70s, clear

Contractor: Cisco Geotech

Operator: Chris + Noah

F&O Representative: BSC/AF

Drilling Method: Truck Mount

Sampling Method: Dedicated gloves/terracores

Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See map

Date Started: 8/17/2020

Date/Time Completed: 8/17/2020 @ 1:30

Depth to Saturated Zone: SI

Sample # Prefix: 13052008 17-09/10 DVP

DRILLING DETAILS			MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO-LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.
0			0-0.4	Sand f, tr gravel, tr grass, loose, dry, light brown, no odor					
			0.4-1.7	Sand f-c, ltl gravel, tr brick, tr asphalt, loose, dry, no odor, brown					
			1.7-3.2	Sand f-m, tr silt, loose, dry, tan, no odor			-09 1030	0.5-1.75	1x G802
			3.2-4	no recovery			-10 1035	0.5-1.75	1x G802
4			4-4.5	same as 1.7-3.2					
			4.5-5	Sand f-m, some silt/clay, loose, dry, brown, no odor					
			5-7.2	same as 4.5-5, wet					
			7.2-8	no recovery					
				8' FOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH	REMARKS
2"	Truck Mount	8'	Field Instrument = PHD/OVM
			If refusal is encountered, describe all efforts used to confirm.
			Field Decon: Yes / No / <u>Dedicated Device</u>

PROPORTIONS USED:
Trace (tr) 0 to 10% Some (sm) 20 to 35%
Little (ltl) 10 to 20% And 35 to 50%

EXAMPLE DESCRIPTION:
SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft.
Loose. No odor.

Reviewed by Staff:

BACKFILL
Asphalt / Concrete _____ To _____ See Monitoring Well
Bentonite Grout/Chips _____ To _____ Completion Report
Cuttings/Native Material _____ To _____
Other _____ To _____



MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: RLI and Windsor Meadows State Park
 Project Location: Hartford and Windsor, CT
 F&O Engineer/Geologist: BSC/AF
 Date of Completion: 8/19/2020
 Well Location Description: E EDGE OF FORMER AG FIELD (SEE MAP)
 Drilling Contractor & Name: Cisco Geotech/Chris
 Drilling Method: GEOPROBE

Well ID: MW-03 (SB-06)
 Project No.: 20170277.A30
 Ground Surface Elevation: —
 Permit #: —
 E1 Top of Steel Casing: —
 E1 Top of PVC Casing: —
 Measuring Point: TPS / PVC
 Well Cover (see codes): —

WELL CONSTRUCTION

WELL CASING/RISER

Diameter: 1.5 in.
 Type: PVC
 Stick-up: 3-2.5 ft.

SUMP (below screen)

Diameter: 1.5 in.
 Type: PVC
 Length: 1" in.

PROTECTIVE CASING

Diameter: 4.5 in. Type: Road Box / Stand Pipe
 Stick-up: 3-5 ft Length of Casing: 5 ft
 Seal Material: CONCRETE

SCREEN INTERVALS

Screen Interval: 20-10 ft Diameter: 1.5 in. Slot Size: —
 Description: PVC / Other: —
 Type: Perforated / Slotted / Wire-Wrap / Pre-Pack / Other: —

BOREHOLE

Diameter: 2 in. Total Boring Depth: 20 ft. Refusal: y / n Depth: — ft.

ANNULAR FILL

SURFACE SEAL

(Approximate volumes if available)

Interval: 1-0 ft. Tremied: Y / N Volume: 1 bags Description: Concrete / Other: —

BACKFILL

Interval: — ft. Tremied: Y / N Volume: — bags Description: Bentonite Grout / Cuttings / Sand (# —) / Native Material
 Other: —

LOWER SEAL

Interval: 3-1 ft. Tremied: Y / N Volume: 1/2 bags Description: Bentonite Pellets / Bentonite Chips / Other: —

FILTER

Interval: 20-3 ft. Tremied: Y / N Volume: 1 bags Description: Sand Filter (type: —) / 00 / Other: —

LOWER BACKFILL

Interval: — ft. Tremied: Y / N Volume: — bags Description: Bentonite Grout / Cuttings / Sand (# —) / Native Material
 Other: —

MONITORING WELL DEVELOPMENT*

Development Method: Surge Block / Submersible Pump / Peristaltic Pump / Waterra / Bailer / Other —
 Date: 8/19/2020

*See Monitoring Well Development Data Sheet for details



MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: RLI and Windsor Meadows State Park
 Project Location: Hartford and Windsor, CT
 F&O Engineer/Geologist: BSC/AF
 Date of Completion: 8/18/2020
 Well Location Description: SW CORNER OF SITE (SEE MAP)
 Drilling Contractor & Name: Cisco Geotech/Chris
 Drilling Method: GEOPROBE

Well ID: MW-02 (SB-03)
 Project No.: 20170277.A30
 Ground Surface Elevation: —
 Permit #: —
 E1 Top of Steel Casing: —
 E1 Top of PVC Casing: —
 Measuring Point: TPS / PVC
 Well Cover (see codes): —

WELL CONSTRUCTION

WELL CASING/RISER

Diameter: 1.5 in.
 Type: PVC
 Stick-up: 3.25 ft.

SUMP (below screen)

Diameter: 1.5 in.
 Type: PVC
 Length: 1" in.

PROTECTIVE CASING

Diameter: 4 in. Type: Road Box / Sand Pipe
 Stick-up: 4 ft Length of Casing: 5 ft
 Seal Material: Concrete

SCREEN INTERVALS

Screen Interval: 20-10 ft Diameter: 1.5 in. Slot Size: —

Description: PVC Other: —

Type: Perforated / Slotted / Wire-Wrap / Pre-Pack Other: —

BOREHOLE

Diameter: 2 in. Total Boring Depth: 20 ft. Refusal: Y / N Depth: — ft.

ANNULAR FILL

SURFACE SEAL

(Approximate volumes if available)

Interval: 1-0 ft. Tremied: Y / N Volume: 1 bags Description: Concrete / Other: —

BACKFILL

Interval: — ft. Tremied: Y / N Volume: — bags Description: Bentonite Grout / Cuttings / Sand (#) / Native Material
 Other: —

LOWER SEAL

Interval: 3-1 ft. Tremied: Y / N Volume: 1/2 bags Description: Bentonite Pellets / Bentonite Chips / Other: —

FILTER

Interval: 20-3 ft. Tremied: Y / N Volume: 1 bags Description: Sand Filter (type:) 20 / Other: —

LOWER BACKFILL

Interval: — ft. Tremied: Y / N Volume: — bags Description: Bentonite Grout / Cuttings / Sand (#) / Native Material
 Other: —

MONITORING WELL DEVELOPMENT*

Development Method: Surge Block / Submersible Pump / Peristaltic Pump / Waterra / Bailer / Other

Date: 8/18/2020

*See Monitoring Well Development Data Sheet for details



FUSS & O'NEILL

BORING LOG

Project Name: RLI and Windsor Meadows State Park

Project Location: Hartford and Windsor, CT

Location ID: MW-01 (B-01)

Sheet #: 1 of

Project #: 20170277.A30

Weather: Pcs, clear

Contractor: Cisco Geotech

Operator: Chris Pat

F&O Representative: BSC/AF

Drilling Method: Geoprobe

Sampling Method: Dedicated gloves/terracoers

Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See map

Date Started: 8/18/2020

Date/Time Completed: 8/18/2020 @ 1025

Depth to Saturated Zone: ~5.5'

Sample # Prefix: 1305200813 - 27

DRILLING DETAILS				MATERIAL DESCRIPTION			ANALYTICAL SAMPLES			
START DEPTH (FT)	BLOWS 6"	REC/ PEN (IN)	DEPTH RANGE (FT)	DESCRIPTION	PID	LITHO-LOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERV.	
0		50/100	0-0.5	Topsoil Sand f-c, tr organics (grass) tr gravel, loose, dry, brown, no odor	0	TS				
			0.5-4.2	Sand f-c, tr gravel, tr silt, loose, dry, no odor, brown		SW	-27 1025	3-4.2	1x GPR Sx VOA	
			4.2-5	no recovery						
5		49/100	5-5.5	same as 0.5-4.2, sand f-m						
			5.5-9.1	same as 5-5.5, wet						
			9.1-10	no recovery						
10		57/100	10-13	same as 5-5-9.1						
			13-14	Sand f-c and gravel, loose, wet, brown, no odor						
			14-14.75	sand f-c and clay, tr gravel, loose, wet, no odor, reddish brown						
			14.75-15	no recovery						
				15' EOB						

BORING DIAMETER

2"

BORING METHOD

Geoprobe

BORING DEPTH

15'

REMARKS

Field Instrument = PII/OVM

If refusal is encountered, describe all efforts used to confirm.

Field Decon: Yes / No / Dedicated Device

PROPORTIONS USED:

Trace (tr) 0 to 10%
Little (ld) 10 to 20%

Some (sm) 20 to 35%
And 35 to 50%

EXAMPLE DESCRIPTION:

SAND, F-M; sm F angular gravel; ld silt; tr clay; (10R 5/4), wet at 7 ft.
Loose. No odor.

Reviewed by Staff:

BACKFILL

Asphalt / Concrete

Bentonite Grout/Chips

Cuttings/Native Material

Other

To

To

To

To

See Monitoring Well Completion Report



MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: RLI and Windsor Meadows State Park
 Project Location: Hartford and Windsor, CT
 F&O Engineer/Geologist: BSC/AF
 Date of Completion: 8/18/2020
 Well Location Description: see map
 Drilling Contractor & Name: Cisco Geotech/Chris Pat
 Drilling Method: GEOPROBE

Well ID: MW-01 (SB-01)
 Project No.: 20170277.A30
 Ground Surface Elevation: —
 Permit #: —
 E1 Top of Steel Casing: —
 E1 Top of PVC Casing: —
 Measuring Point: TPS / PVC
 Well Cover (see codes): —

WELL CONSTRUCTION

WELL CASING/RISER

Diameter: 1.5 in.
 Type: PVC
 Stick-up: 3 ft.

SUMP (below screen)

Diameter: 1.5 in.
 Type: PVC
 Length: 1 in.

PROTECTIVE CASING

Diameter: 1.5 in. Type: Road Box / Stand Pipe
 Stick-up: 3.25 ft Length of Casing: 5 ft
 Seal Material: CONCRETE

SCREEN INTERVALS

Screen Interval: 13-10 ft Diameter: 1.5 in. Slot Size: —
 Description: PVC / Other: —
 Type: Perforated / Slotted / Wire-Wrap / Pre-Pack / Other: —

BOREHOLE

Diameter: 2 in. Total Boring Depth: 13 ft. Refusal: y/n Depth: — ft.

ANNULAR FILL

SURFACE SEAL

(Approximate volumes if available)

Interval: 2-0 ft. Tremied: Y/N Volume: 1 bags Description: Concrete / Other: —

BACKFILL

Interval: 2-1 ft. Tremied: Y/N Volume: 1/2 bags Description: Bentonite Grout / Cuttings / Sand (#20) / Native Material
 Other: —

LOWER SEAL

Interval: 3-2 ft. Tremied: Y/N Volume: 1/2 bags Description: Bentonite Pellets / Bentonite Chips / Other: —

FILTER

Interval: 13-3 ft. Tremied: Y/N Volume: 1 bags Description: Sand Filter (type:) 00 / Other: —

LOWER BACKFILL

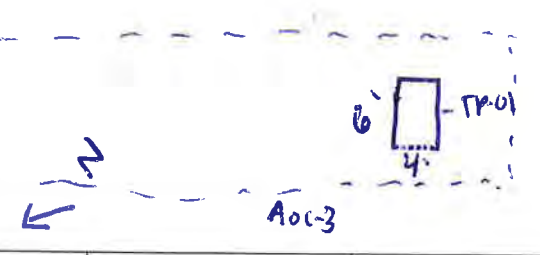
Interval: — ft. Tremied: Y/N Volume: — bags Description: Bentonite Grout / Cuttings / Sand (#) / Native Material
 Other: —

MONITORING WELL DEVELOPMENT*

Development Method: Surge Block / Submersible Pump / Peristaltic Pump / Waterra / Bailer / Other

Date: 8/18/2020

*See Monitoring Well Development Data Sheet for details

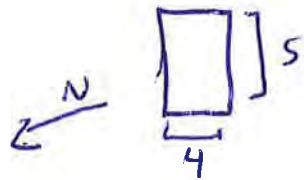
 FUSS & O'NEILL		TEST PIT LOG		Location ID: <u>TP-01</u>		
		Project Name: WMSP Phase III		Sheet: <u>1</u> of <u>1</u>		
		Project Location: Windsor, CT		Project #: <u>20170277.A30</u>		
				Weather:		
Contractor: <u>Cisco LLC</u>			Test Pit Location Description: <u>TP-01, Southern Pointe Acc-3</u>			
Operator: <u>John</u>			Date Started: <u>10/15/2021</u>			
F&O Representative: <u>CAJ</u>			Date/Time Completed: <u>10/15/2021 @</u>			
Sampling Method: <u>Excavator</u>			Depth to Saturated Zone: <u>NA</u>			
Sample # Prefix: <u>1643211015- 03, 04</u>			Water Observation: <u>NA</u>			
Photos Taken? YES / NO			<u>Weeping/Mottling/Standing</u>			
Photo Numbers:						
MATERIAL DESCRIPTION			ANALYTICAL SAMPLES			
DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-7	Fill-Sand F-M brown, loose dy, lt trash/plastics, to brick	NA	Fi	-03 0936 -04 0931	0-2 2-4	802 Glass ↓
SKETCH (Include North arrow) 						
Coordinates Obtained? Yes / <u>No</u>	North/Latitude	East/Longitude	REMARKS Field Instrument ID = <u>PID</u> If refusal is encountered, describe all efforts used to confirm. Field Decon: <u>Yes</u> / No / Dedicated Device			
Pit Dimensions	<u>4x6x7</u>					
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50%			BACKFILL Asphalt / Concrete _____ To _____ Fill _____ To _____ Cuttings/Native <u>0</u> To <u>7 feet</u> Other _____ To _____			
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor.						
Reviewed by Staff:						

 FUSS & O'NEILL	TEST PIT LOG		Location ID: <u>TP-02</u>	
	Project Name: <u>WMSP Phase III</u>		Sheet: <u>1</u> of <u>1</u>	
	Project Location: <u>Windsor, CT</u>		Project #: <u>20170277.A30</u> Weather: <u>Clear 70°F</u>	

Contractor: <u>Cisco LLC</u> Operator: <u>John</u> F&O Representative: <u>CAJ</u> Sampling Method: <u>Excavator</u> Sample # Prefix: <u>1643211015-</u> Photos Taken? YES / NO Photo Numbers:	Test Pit Location Description: <u>AOC-4, western portion</u> Date Started: <u>10/15/2021</u> Date/Time Completed: <u>10/15/2021 @</u> Depth to Saturated Zone: <u>NA</u> Water Observation: <u>Weeping/Mottling/Standing</u>

MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
6-7	Sand F-m, light brown, dry loose, no odor	NA	SW	05 0951 06 0952	0-2 4-4	8oz G, 009 ↓

SKETCH (Include North arrow)



Coordinates Obtained? Yes / No	North/Latitude	East/Longitude	REMARKS Field Instrument ID = If refusal is encountered, describe all efforts used to confirm. Field Decon <u>Yes</u> / No / Dedicated Device
Pit Dimensions	5' x 4' x 7'		

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (l) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff:		BACKFILL Asphalt / Concrete _____ To _____ Fill _____ To _____ Cuttings/Native _____ To <u>7</u> Other _____ To _____



FUSS & O'NEILL

TEST PIT LOG

Project Name: WMSP Phase III

Project Location: Windsor, CT

Location ID: TP-03

Sheet: of

Project #: 20170277.A30

Weather:

Contractor: Cisco LLC

Operator: John

F&O Representative: CAJ

Sampling Method: Excavator

Sample # Prefix: 1643211015-07,08

Photos Taken? YES / NO

Photo Numbers:

Test Pit Location Description: Acc 4 Eastern Portia

Date Started: 10/15/2021

Date/Time Completed: 10/15/2021 @

Depth to Saturated Zone: NA

Water Observation: —

Weeping/Mottling/Standing

MATERIAL DESCRIPTION

ANALYTICAL SAMPLES

DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-7	Sand F-M, light brown, loose dry, no odor	ND	SW	07 1006 08 1007	0-2 2-4	8oz Glass ↓

SKETCH (Include North arrow)



Coordinates Obtained?
Yes / No

North/Latitude

East/Longitude

REMARKS

Field Instrument ID = PID

If refusal is encountered, describe all efforts used to confirm.

Pit Dimensions

4' x 6' x 7'

Field Decon: Yes / No / Dedicated Device

PROPORTIONS USED:

Trace (tr) 0 to 10% Some (sm) 20 to 35%
Little (ltl) 10 to 20% And 35 to 50%

EXAMPLE DESCRIPTION:

SAND, 1'-M; sm 1' angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft.
Loose. No odor.

Reviewed by Staff:

BACKFILL

Asphalt / Concrete _____ To _____
Fill _____ To _____
Cuttings/Native _____ To 7
Other _____ To _____



FUSS & O'NEILL

TEST PIT LOG

Project Name: WMSP Phase III

Project Location: Windsor, CT

Location ID: TP-04

Sheet: 1 of 1

Project #: 20170277.A30

Weather:

Contractor: Cisco LLC

Operator: John

F&O Representative: CAJ

Sampling Method: Excavator

Sample # Prefix: 1643211015-

Photos Taken? YES / NO

Photo Numbers:

Test Pit Location Description: Southeastern corner of Regm

Date Started: 10/15/2021

Date/Time Completed: 10/15/2021 @

Depth to Saturated Zone: NA

Water Observation: —

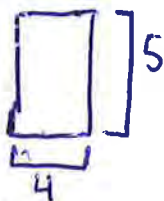
Weeping/Mottling/Standing

MATERIAL DESCRIPTION

ANALYTICAL SAMPLES

DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-7	Sand F-M, brown, loose, dry tr silt, no odor.	ND	SW	~09 1023 -10 1024	0-2 ~~2-4~~ 4-6	G/455 802 ↓

SKETCH (Include North arrow)



Coordinates Obtained?
Yes / No

North/Latitude

East/Longitude

REMARKS

Field Instrument ID =

If refusal is encountered, describe all efforts used to confirm.

Pit Dimensions

4x5x7

Field Decon: Yes / No / Dedicated Device

PROPORTIONS USED:

Trace (tr) 0 to 10% Some (sm) 20 to 35%
Little (ltl) 10 to 20% And 35 to 50%

EXAMPLE DESCRIPTION:

SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft.
Loose. No odor.

Reviewed by Staff:

BACKFILL

Asphalt / Concrete

To

Fill

To

Cuttings/Native

0

To 7

Other

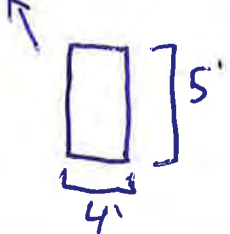
To

 FUSS & O'NEILL	TEST PIT LOG		Location ID: <u>TP-05</u>	
	Project Name: WMSP Phase III		Sheet: <u>1</u> of <u>1</u>	
	Project Location: Windsor, CT		Project #: <u>20170277.A30</u> Weather: <u>Clear 70's</u>	

Contractor: <u>Cisco LLC</u> Operator: <u>John</u> F&O Representative: <u>CAJ</u> Sampling Method: <u>Excavator</u> Sample # Prefix: <u>1643211015-</u> Photos Taken? YES / NO Photo Numbers:	Test Pit Location Description: <u>Southwestern Region</u> Date Started: <u>10/15/2021</u> Date/Time Completed: <u>10/15/2021 @</u> Depth to Saturated Zone: <u>NA</u> Water Observation: <u>Weeping/Mottling/Standing</u>

MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-7	Sand F-M, brown, loose, dry, no odor	ND	SW	-11 1035 -12 1036	0-2 2-4	802 G 802 G

SKETCH (Include North arrow)



Coordinates Obtained? Yes / No	North/Latitude	East/Longitude	REMARKS Field Instrument ID = If refusal is encountered, describe all efforts used to confirm. Field Decon: Yes / No / Dedicated Device
Pit Dimensions	4x5x7		

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff:	BACKFILL Asphalt / Concrete _____ To _____ Fill _____ To _____ Cuttings/Native _____ To <u>7</u> Other _____ To _____



FUSS & O'NEILL

TEST PIT LOG

Project Name: WMSP Phase III

Project Location: Windsor, CT

Location ID: TP-06

Sheet: 1 of 1

Project #: 20170277.A30

Weather: Clear 70S

Contractor: Cisco LLC

Operator: John

F&O Representative: CAJ

Sampling Method: Excavator

Sample # Prefix: 1643211015- 13, 14

Photos Taken? YES / NO

Photo Numbers:

Test Pit Location Description: Southern most berm

Date Started: 10/15/2021

Date/Time Completed: 10/15/2021 @

Depth to Saturated Zone: NA

Water Observation: -

Weeping/Mottling/Standing

MATERIAL DESCRIPTION

ANALYTICAL SAMPLES

DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-7	Sand F-M brown, loose, dry sm organics, no odor	NA ↓		13 1048 14 1049	0-2 2-4	802 G 802 G

SKETCH (Include North arrow)



Coordinates
Obtained?
Yes / No

North/Latitude

East/Longitude

REMARKS

Field Instrument ID =

If refusal is encountered, describe all efforts used to confirm.

Pit
Dimensions

4x6x7

Field Decon ☒ Yes / No / Dedicated Device

PROPORTIONS USED:

Trace (tr) 0 to 10% Some (sm) 20 to 35%
Little (l) 10 to 20% And 35 to 50%

EXAMPLE DESCRIPTION:

SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft.
Loose. No odor.

Reviewed by Staff:

BACKFILL

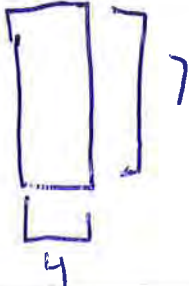
Asphalt / Concrete _____ To _____
Fill _____ To _____
Cuttings/Native _____ To _____
Other _____ To _____

 FUSS & O'NEILL	TEST PIT LOG		Location ID: <u>TP-07</u>	
	Project Name: WMSP Phase III		Sheet: <u>1</u> of <u>1</u>	
	Project Location: Windsor, CT		Project #: <u>20170277.A30</u> Weather: <u>Clear 70's</u>	

Contractor: <u>Cisco LLC</u> Operator: <u>John</u> F&O Representative: <u>CAJ</u> Sampling Method: <u>Excavator</u> Sample # Prefix: <u>1643211015-</u> Photos Taken? YES / NO Photo Numbers:	Test Pit Location Description: <u>Middle beam portion</u> Date Started: <u>10/15/2021</u> Date/Time Completed: <u>10/15/2021 @</u> Depth to Saturated Zone: <u>NA</u> Water Observation: <u>Weeping/Mottling/Standing</u>

MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-7	Sandy F-M, brown, dry, loose no odor, ~~little~~ ^{no} organics	ND	SL	15 1057 16 1058	0-2 2-4	802G ↓

SKETCH (Include North arrow)



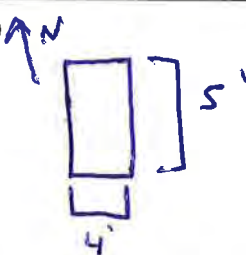
Coordinates Obtained? Yes / <u>No</u>	North/Latitude	East/Longitude	REMARKS Field Instrument ID = If refusal is encountered, describe all efforts used to confirm. Field Decon: Yes / No / Dedicated Device
Pit Dimensions	7'x4'x3'		

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (l) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm f' angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff:	BACKFILL Asphalt / Concrete _____ To _____ Fill _____ To _____ Cuttings/Native _____ To <u>7</u> Other _____ To _____

 FUSS & O'NEILL	TEST PIT LOG		Location ID: <u>TP-08</u>	
	Project Name: WMSP Phase III		Sheet: _____ of _____	
	Project Location: Windsor, CT		Project #: <u>20170277.A30</u> Weather: <u>Clear 70's</u>	

Contractor: <u>Cisco LLC</u> Operator: <u>John</u> F&O Representative: <u>CAJ</u> Sampling Method: <u>Excavator</u> Sample # Prefix: <u>1643211015- 16, 17</u> Photos Taken? YES / NO Photo Numbers:	Test Pit Location Description: <u>Northern Portion of Barn</u> Date Started: <u>10/15/2021</u> Date/Time Completed: <u>10/15/2021 @</u> Depth to Saturated Zone: <u>NA</u> Water Observation: <u>—</u> <u>Weeping/Mottling/Standing</u>

MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-7	Same F-M, loose, brown, dry, no odor, ltl organic	ND	SW	~~1105~~ 34 1105	0-2	8026
				~~1106~~ 35 1106	2-4	

SKETCH (Include North arrow) 

Coordinates Obtained? Yes / <u>No</u>	North/Latitude	East/Longitude	REMARKS Field Instrument ID = <u>PID</u> If refusal is encountered, describe all efforts used to confirm. Field Decon: <u>Yes</u> / No / Dedicated Device
Pit Dimensions <u>5 x 4' x 7</u>			

PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff:	BACKFILL Asphalt / Concrete _____ To _____ Fill _____ To _____ Cuttings/Native _____ <u>①</u> To <u>7</u> Other _____ To _____

 FUSS & O'NEILL		TEST PIT LOG		Location ID: <u>TP-09</u>	
		Project Name: WMSP Phase III		Sheet: <u>1</u> of <u>1</u>	
		Project Location: Windsor, CT		Project #: <u>20170277.A30</u> Weather: <u>C/car 785</u>	

Contractor: <u>Cisco LLC</u> Operator: <u>John</u> F&O Representative: <u>CAJ</u> Sampling Method: <u>Excavator</u> Sample # Prefix: <u>1643211015-</u> Photos Taken? YES / NO Photo Numbers:	Test Pit Location Description: <u>East of Proposed Riverbank</u> Date Started: <u>10/15/2021</u> Date/Time Completed: <u>10/15/2021 @</u> Depth to Saturated Zone: <u>NA</u> Water Observation: <u>—</u> <u>Weeping/Mottling/Standing</u>

MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
6-7	Sanz F-M, loose, dry, no odor ltl organics, tr silt			18 1128 19 1129 20 1130	<u>0.5-1</u> <u>2-4</u> <u>4-6</u>	807 G ↓

SKETCH (Include North arrow)



Coordinates Obtained? Yes / No	North/Latitude	East/Longitude	REMARKS Field Instrument ID = <u>PID</u> If refusal is encountered, describe all efforts used to confirm. Field Decon: Yes / No / Dedicated Device
Pit Dimensions	<u>4 x 5 x 7</u>		
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor. Reviewed by Staff:			

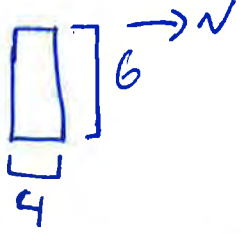
BACKFILL	
Asphalt / Concrete	To _____
Fill	To _____
Cuttings/Native	To <u>7</u>
Other	To _____

 FUSS & O'NEILL	TEST PIT LOG		Location ID: <u>TP-10</u>	
	Project Name: WMSP Phase III		Sheet: <u>1</u> of <u>1</u>	
	Project Location: Windsor, CT		Project #: <u>20170277.A30</u> Weather: <u>Clear 70'S</u>	

Contractor: <u>Cisco LLC</u> Operator: <u>John</u> F&O Representative: <u>CAJ</u> Sampling Method: <u>Excavator</u> Sample # Prefix: <u>1643211015-</u> Photos Taken? YES / NO Photo Numbers:	Test Pit Location Description: Date Started: <u>10/15/2021</u> Date/Time Completed: <u>10/15/2021 @</u> Depth to Saturated Zone: <u>NA</u> Water Observation: <u>—</u> <u>Weeping/Mottling/Standing</u>

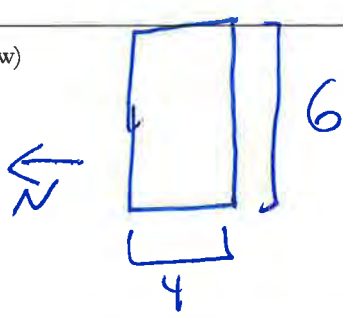
MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-3 3-7	Sand F-M, brown, loose, dry no odor ↓ 1H silt, tr clay	NO ↓	SW ↓	21 1141 22 1142 23 1143	0-2 2-4 4-6	802 G ↓

SKETCH (Include North arrow)



Coordinates Obtained? Yes / <u>No</u>	North/Latitude	East/Longitude	REMARKS Field Instrument ID = If refusal is encountered, describe all efforts used to confirm. Field Decon: <u>Yes</u> / No / Dedicated Device
Pit Dimensions <u>6x4x7</u>			
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50% EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loosc. No odor. Reviewed by Staff:			

BACKFILL	
Asphalt / Concrete	To _____
Fill	To _____
Cuttings/Native	To <u>7</u>
Other _____	To _____

 FUSS & O'NEILL		TEST PIT LOG		Location ID: <u>TR 11</u>		
		Project Name: WMSP Phase III		Sheet: <u>of</u>		
		Project Location: Windsor, CT		Project #: <u>20170277.A30</u>		
Contractor: <u>Cisco LLC</u> Operator: <u>John</u> F&O Representative: <u>CAJ</u> Sampling Method: <u>Excavator</u> Sample # Prefix: <u>1643211015-</u> Photos Taken? YES / NO Photo Numbers:		Test Pit Location Description: Date Started: <u>10/15/2021</u> Date/Time Completed: <u>10/15/2021 @</u> Depth to Saturated Zone: <u>N/A</u> Water Observation: <u>Weeping/Mottling/Standing</u>				
MATERIAL DESCRIPTION				ANALYTICAL SAMPLES		
DEPTH RANGE (FT)	DESCRIPTION	PID	LITHOLOGIC CODE	SAMPLE NO. & TIME	DEPTH INTERVAL (FT)	JARS & PRESERVATIVES
0-11	Fill, Sand F-M, dry, loose fill organic, 1st track, plastic, cloth, cans, bricks		F-1	24 1200	0-2	8oz G ↓
11-12	Sand F-M, 1st clay, approx 6mm dry, no odor, appears to be negative but at max of excavator reach			25 1200	2-4	
SKETCH (Include North arrow) 						
Coordinates Obtained? Yes / No	North/Latitude	East/Longitude	REMARKS Field Instrument ID = If refusal is encountered, describe all efforts used to confirm. Field Decon: Yes / No / Dedicated Device			
Pit Dimensions	4x6x7					
PROPORTIONS USED: Trace (tr) 0 to 10% Some (sm) 20 to 35% Little (ltl) 10 to 20% And 35 to 50%			BACKFILL Asphalt / Concrete _____ To _____ Fill _____ To _____ Cuttings/Native _____ To <u>12</u> Other _____ To _____			
EXAMPLE DESCRIPTION: SAND, F-M; sm F angular gravel; ltl silt; tr clay; (10R 5/4), wet at 7 ft. Loose. No odor.						
Reviewed by Staff:						

Soil Sampling Field Data

Client/Project Name: WMSP Phase III Project Location: Windsor, CT Date: 10/15/2021 Weather:	PROJECT #: 20170277.A30	 FUSS & O'NEILL

Sample #: 1643211015- 28	Container	Quantity	Preservative
Sample Location ID: HS-05			
Sample Location Description: Riverbank behind TP-06 Sampler: CAJ Time: 1337 Sampling Device: Auger / Core Sampler / <u>Shovel</u> / Hammer Drill / Trowel / Other Field Decon: <u>Yes</u> / No / Dedicated Type of Sample: <u>Grab</u> / Composite / Other Generic Soil Description: <u>Sand F-m</u> Sample Depth: <u>0-1</u> PetroFLAG/OVM <u>NA</u>	802 G	1	Asis

Sample #: 1643211015- 29	Container	Quantity	Preservative
Sample Location ID: HS-06			
Sample Location Description: Riverbank between TP-05 & 06 Sampler: CAJ Time: 1353 Sampling Device: Auger / Core Sampler / <u>Shovel</u> / Hammer Drill / Trowel / Other Field Decon: <u>Yes</u> / No / Dedicated Type of Sample: <u>Grab</u> / Composite / Other Generic Soil Description: <u>Sand F-m, 1/4 gravel, brown, loose dry</u> Sample Depth: <u>0-1</u> PetroFLAG/OVM <u>NA</u>	802 G	1	Asis

Sample #: 1643211015- 30 (MS/MSD)	Container	Quantity	Preservative
Sample Location ID: HS-07			
Sample Location Description: Next to MW-02 Sampler: CAJ Time: 1340 Sampling Device: Auger / Core Sampler / <u>Shovel</u> / Hammer Drill / Trowel / Other Field Decon: <u>Yes</u> / No / Dedicated Type of Sample: <u>Grab</u> / Composite / Other Generic Soil Description: <u>Sand F-m, 1/4 gravel, brown, loose dry</u> Sample Depth: <u>0-1</u> PetroFLAG/OVM <u>NA</u>	802 G	1 x 3	Asis

Sample #: 1643211015- 31 (Dup)	Container	Quantity	Preservative
Sample Location ID: HS-07			
Sample Location Description: " " Sampler: CAJ Time: 1341 Sampling Device: Auger / Core Sampler / <u>Shovel</u> / Hammer Drill / Trowel / Other Field Decon: Yes / No / Dedicated Type of Sample: <u>Grab</u> / Composite / Other Generic Soil Description: " " Sample Depth: " " PetroFLAG/OVM " "	802 G	1	Asis

Trip Blank Field Data

Client/Project Name: WMSP Phase III Project Location: Windsor, CT Date: 10/15/2021 Weather:	PROJECT #: 20170277.A30	 FUSS & O'NEILL

Sample #: 1643211015-32 Trip Blank Matrix: Soil - High / Low (circle one)	Container	Quantity	Preservative
Sampler: CAJ Time: 1420 Blank Supplied By: Lab F&O / Other _____ Comments:	V09	1	Methanol

Sample #: 1643211015-33 Trip Blank Matrix: Soil - High / Low (circle one)	Container	Quantity	Preservative
Sampler: CAJ Time: 1421 Blank Supplied By: Lab F&O / Other _____ Comments:	V09	2	D1

Sample #: Trip Blank Matrix:	Container	Quantity	Preservative
Sampler: _____ Time: _____ Blank Supplied By: Lab / F&O / Other _____ Comments:			

Sample #: Trip Blank Matrix:	Container	Quantity	Preservative
Sampler: _____ Time: _____ Blank Supplied By: Lab / F&O / Other _____ Comments:			

Appendix B

Groundwater Sampling Field Data Sheets

Low Flow Sampling

Purge Data

Sample Data

Field Parameter Data

Instrument ID#

$<0.3'$	$<5 / \pm 10\%$	$\pm 10\%$ when > 0.5	± 0.1	$\pm 3\%$ (0.5 deg)	$\pm 3\%$

Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

Q:\EA&R Resources\04 - Field Operations\Field Data Sheets\LowFlowData.doc
Format Revised 1/26/07

Low Flow Sampling



FUSS & O'NEILL

Sample Data

Field Parameter Data

[illegible] $\leq 0.3'$

<5 / $\pm 10\%$ $\pm 10\%$ when > 0.5

± 0.1

 $\pm 3\%$ (0.5 deg)

$\pm 3\%$

(circle appropriate item(s), cross out if not applicable)

General Condition: <u>Good</u> / Needs Repair Protective Steel: <u>OK</u> / Cracked / Leaking / Bent / Loose/ None Well # Visible?: <u>Y</u> / N Well Cap: <u>Good</u> / Broken / None Evidence of rain water between steel and PVC?: Y / <u>N</u> Evidence of ponding around well?: Y / <u>N</u> Gopher type holes around collar?: Y / <u>N</u> Comments:	Is well plumb?: <u>Y</u> / N Lock: Good / Broken / <u>None</u> Rust around cap: Y / <u>N</u> PVC Riser: <u>Good</u> / Damaged / None Concrete collar: <u>OK</u> / Cracked / Leaking / None Other evidence of: Rodents / Insects / <u>None</u> Curb Box: <u>N</u> / Y (key is: Hex / Pent / Other)

Low Flow Sampling

Client/Project Name: RLI and WMSP		 FUSS & O'NEILL
Project Location: Hartford and Windsor, CT	PROJECT #: 20170277.A30	
Sample#: 1305200826- 08	WELL ID: MW-01 (WMSP)	

Purge Data

Date: 8/26/2020

Start time: 1844 Stop time: 1804 Sample time: 1805
Pump Rate: 200 (ml/m) Depth Sampled: ^13
Total time purged: 20 Sampler: BSC
Volume Purged: 4 (ltr)
Purge Device: Dedicated / Nondedicated
Device Type: Bladder / Peristaltic / Submersible
Weather: 70s, clear
Filtered? N Y Filter Size: 10u / 0.45u Filtered in: Field / Lab
Appearance: Clear PVC: 10.42
Well Yield: High / Moderate / Low / Dry TPS: 10.69
Well Diameter: 1.5" DTB: 15.85
Comments:

Sample Data

Container	Quantity	Preservative
VOA	✓✓✓ 3	HCl
Amber L	✓✓ 4	Ice
P250	✓ 1	HNO3

Field Parameter Data

Instrument ID#

[illegible]

<0.3'	<5 / $\pm 10\%$	$\pm 10\%$ when > 0.5	± 0.1	$\pm 3\%$ (0.5 deg)	$\pm 3\%$

Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

General Condition: <u>Good</u> / Needs Repair Protective Steel: <u>OK</u> / Cracked / Leaking / Bent / Loose/ None Well # Visible?: <u>Y</u> / N Well Cap: <u>Good</u> / Broken / None Evidence of rain water between steel and PVC?: Y / <u>N</u> Evidence of ponding around well?: Y / <u>N</u> Gopher type holes around collar?: Y / <u>N</u> Comments:	Is well plumb?: <u>N</u> / N Lock: Good / Broken / <u>None</u> Rust around cap: Y / <u>N</u> PVC Riser: <u>Good</u> / Damaged / None Concrete collar: <u>OK</u> / Cracked / Leaking / None Other evidence of: Rodents / Insects / <u>None</u> Curb Box: <u>N</u> / Y (key is: Hex / Pent / Other)

Low Flow Sampling



FUSS & O'NEILL

Sample Data

Field Parameter Data

[illegible]

$<0.3'$	$<5 / \pm 10\%$	$\pm 10\%$ when > 0.5	± 0.1	$\pm 3\%$ (0.5 deg)	$\pm 3\%$

(circle appropriate item(s), cross out if not applicable)

Well Condition Checklist

General Condition: Good / Needs Repair
Protective Steel: OK / Cracked / Leaking / Bent / Loose / None
Well # Visible?: Y / N
Well Cap: Good / Broken / None
Evidence of rain water between steel and PVC?: Y / N
Evidence of ponding around well?: Y / N
Gopher type holes around collar?: Y / N
Comments:

Is well plumb? Y / N
Lock: Good / Broken / None
Rust around cap: Y / N
PVC Riser: Good / Damaged / None
Concrete collar: OK / Cracked / Leaking / None
Other evidence of: Rodents / Insects / None
Curb Box: N / Y (key is: Hex / Pent / Other)

Low Flow Sampling

Client/Project Name: Riverfront Land, Inc.		 FUSS & O'NEILL
Project Location: Hartford/Windsor, CT	PROJECT #: 20170277.A30	
Sample#: 3052103 01 - 10	WELL ID: MW- 02	

Purge Data

Date: 3/01/2021

Start time: 1035 Stop time: 1056 Sample time: 1057

Pump Rate: 200 (ml/m) Depth Sampled: ~ 21'

Total time purged: 21 Sampler: (BSC)CJ

Volume Purged: 4 (ltr)

Purge Device: Medicated / Nonmedicated Weather: 40% overcast

Device Type: Bladder / Peristaltic / Submersible
Filtered? N / Y / Filtr. Size: 0.45 Filtered in: Field / Lab

Filtered: ☒ Y Filter Size: 10u / 0.45u Filtered In: Field / Lab
Appearance: 1 PVC: 14.49

Well Yield: High / Moderate / Low / Dry

Well Diameter: 15" DTB: $23.18 + 0 = 23.18$

Comments:

Sample Data

Container	Quantity	Preservative
VOA	3	HCl
Amber L	4	Ice
P250	1	HNO3

Field Parameter Data

Instrument ID#

[illegible] $\leq 0.3'$

$<5 / \pm 10\%$ $\pm 10\%$ when > 0.5

± 0.1

$\pm 3\%$ (0.5 deg)

± 3%

Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

General Condition: <u>Good</u> / Needs Repair Protective Steel: <u>OK</u> / Cracked / Leaking / Bent / Loose/ None Well # Visible?: <u>Y</u> / N Well Cap: <u>Good</u> / Broken / None Evidence of rain water between steel and PVC?: Y / <u>N</u> Evidence of ponding around well?: Y / <u>N</u> Gopher type holes around collar?: Y / <u>N</u> Comments:	Is well plumb?: <u>Y</u> / N Lock: <u>Good</u> / Broken / None Rust around cap: Y / <u>N</u> PVC Riser: <u>Good</u> / Damaged / None Concrete collar: <u>OK</u> / Cracked / Leaking / None Other evidence of: Rodents / Insects / <u>None</u> Curb Box <u>N</u> Y (key is: Hex / Pent / Other)

Monitoring Well Sample Log

Low Flow Sampling

Client/Project Name: Riverfront Land, Inc.		 FUSS & O'NEILL
Project Location: Hartford/Windsor, CT	PROJECT #: 20170277.A30	
Sample#: 3052103 - 11	WELL ID: MW- 01	

Purge Data

Date: 3/1/2021
 Start time: 1110 Stop time: 1131 Sample time: 1132
 Pump Rate: 200 (ml/m) Depth Sampled: ~13'
 Total time purged: 21 Sampler: BSC/CJ
 Volume Purged: 4 (ltr) Weather: Cloudy 30's
 Purge Device: Dedicated / Non-dedicated
 Device Type: Bladder / Peristaltic / Submersible
 Filtered? ☒ Y Filter Size: 10u / 0.45u Filtered in: Field / Lab
 Appearance: Clear PVC: 5.56
 Well Yield: High / Moderate / Low / Dry TPS: 5.87
 Well Diameter: 2 inch DTB: 15.75 - 10.27 = 16.02
 Comments:

Sample Data

Container	Quantity	Preservative
VOA	3 ☒	HCl
Amber L	4 ☒	Ice
P250	1 ☒	HNO3

Field Parameter Data

Instrument ID#

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
5.56	1110	Start					
5.64	1120	1.32	4.47	6.05	7.6	349.6	204.0
5.61	1125	5.62	3.22	6.08	7.5	357.5	200.7
5.62	1130	End 5.63	4.20	6.14	7.3	366.2	202.1
-	1131	Stop					
-	1132	Sample					

<0.3' <5 / ± 10% ± 10% when > 0.5 ± 0.1 ± 3% (0.5 deg) ± 3%

Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

General Condition: <u>Good</u> / Needs Repair Protective Steel: <u>OK</u> / Cracked / Leaking / Bent / Loose / None Well # Visible?: <u>Y</u> / N Well Cap: <u>Good</u> / Broken / None Evidence of rain water between steel and PVC?: Y <u>N</u> Evidence of ponding around well?: Y <u>N</u> Gopher type holes around collar?: Y <u>N</u> Comments:	Is well plumb?: <u>Y</u> / N Lock: Good / Broken <u>None</u> Rust around cap: <u>Y</u> / N PVC Riser: <u>Good</u> / Damaged / None Concrete collar: <u>OK</u> / Cracked / Leaking / None Other evidence of: Rodents / Insects <u>None</u> Curb Box: <u>N</u> / Y (key is: Hex / Pent / Other)

Monitoring Well Sample Log

Low Flow Sampling

Client/Project Name: Windsor Meadows State Park		 FUSS & O'NEILL
Project Location: Windsor CT	PROJECT #: 20170277.A30	
Sample #: 1643211008 - 01, 02 (DW) WELL ID: MW-02		

Purge Data

Sample Data

Date: 10/8/21				Container	Quantity	Preservative
Start time: 0933	Stop time: 1009	Sample time: 1010, 1011	Amber L	4	ASIS	
Pump Rate: 200 (ml/m)	Depth Sampled: 21	Sampler: CAJ	Harvey P250	1	HNO3	
Total time purged: 36	Volume Purged: 7.2 (ltr)	Weather: Clear 60's	Vog	3	HCl	
Purge Device: Dedicated / Nondedicated	Device Type: Bladder / Peristaltic / Submersible	Filtered: N / Y Filter Size: 10u / 0.45u	Field / Lab			
Appearance: Clear	PVC: 16.01	TPS: 16.74	DTB: 23.16			
Well Yield: High / Moderate / Low / Dry	Well Diameter: 2	Comments:				

Field Parameter Data

Instrument ID#

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
16.01	0933	Start					
16.04	0943	47.60	4.40	6.56	14.2	834	23.0
16.02	0948	36.91	3.54	6.62	14.3	831	23.3
16.05	0953	18.41	3.85	6.59	14.4	836	24.1
16.07	0958	9.73	4.04	6.63	14.4	836	25.6
16.04	1003	9.22	3.76	6.58	14.7	837	28.4
16.04	1008	8.57	3.77	6.62	14.5	836	31.1
—	1009	Sample					
—	1010	Sample					
—	1011	Sample					

<0.3' <5 / ± 10% ± 10% when > 0.5 ± 0.1 ± 3% (0.5 deg) ± 3%

Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

General Condition: Good / Needs Repair
 Protective Steel: OK / Cracked / Leaking / Bent / Loose / None
 Well # Visible: Y / N
 Well Cap: Good / Broken / None
 Evidence of rain water between steel and PVC?: Y / N
 Evidence of ponding around well?: Y / N
 Gopher type holes around collar?: Y / N
 Comments:

Is well plumb?: Y / N
 Lock: Good / Broken / None
 Rust around cap: Y / N
 PVC Riser: Good / Damaged / None
 Concrete collar: OK / Cracked / Leaking / None
 Other evidence of: Rodents / Insects / None
 Curb Box: N / Y (key is: Hex / Pent / Other)

Monitoring Well Sample Log

Low Flow Sampling

Client/Project Name: Windsor Meadows State Park		 FUSS & O'NEILL
Project Location: Windsor CT	PROJECT #: 20170277.A30	
Sample#: 1643211008 - 03	WELL ID: MW-03	

Purge Data

Date: 10/8/21
 Start time: 1123 Stop time: 1144 Sample time: 1145
 Pump Rate: 200 (ml/m) Depth Sampled: 21
 Total time purged: 21 Sampler: CAT
 Volume Purged: 4.2 (ltr)
 Purge Device: Dedicated / Nondedicated
 Device Type: Bladder / Peristaltic / Submersible
 Filtered: Yes / No Filter Size: 10u / 0.45u Field / Lab
 Appearance: Clear PVC: 15.72
 Well Yield: High / Moderate / Low / Dry TPS: 16.28
 Well Diameter: 2" DTB: 23.05
 Comments: Turbidity below 5 ft time
 Metal was sampled

Sample Data

Container	Quantity	Preservative
~~4~~ Amber L	4	As is
Vog	3	HCl
P250	1	HNO3

Field Parameter Data

Instrument ID#

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
15.72	1123	Start					
16.09	1133	20.65	3.57	5.82	15.4	78.2	46.5
15.97	1138	28.25	2.63	5.45	15.0	57.5	52.8
15.98	1143	18.64	2.39	5.57	15.0	57.1	49.1
-	1144	Stop					
-	1145	Sample					

<0.3' <5 / ± 10% ± 10% when > 0.5 ± 0.1 ± 3% (0.5 deg) ± 3%

Well Condition Checklist

(circle appropriate item(s), cross out if not applicable)

General Condition: Good / Needs Repair
 Protective Steel: OK / Cracked / Leaking / Bent / Loose / None
 Well # Visible?: Y / N
 Well Cap: Good / Broken / None
 Evidence of rain water between steel and PVC?: Y / N
 Evidence of ponding around well?: Y / N
 Gopher type holes around collar?: Y / N
 Comments:

Is well plumb?: Y / N
 Lock: Good / Broken / None
 Rust around cap: Y / N
 PVC Riser: Good / Damaged / None
 Concrete collar: OK / Cracked / Leaking / None
 Other evidence of: Rodents / Insects / None
 Curb Box: N / Y (key is: Hex / Pent / Other)

Low Flow Sampling



FUSS & O'NEILL

Sample Data

Bring fubins next event

Field Parameter Data

[illegible]

$<0.3'$	$<5 / \pm 10\%$	$\pm 10\%$ when > 0.5	± 0.1	$\pm 3\%$ (0.5 deg)	$\pm 3\%$

(circle appropriate item(s), cross out if not applicable)

Is well plumbed? Y / N

Lock: Good / Broken / None

Rust around cap: Y / N

PVC Riser: Good / Damaged / None

Concrete collar: OK / Cracked / Leaking / None

Other evidence of: Rodents / Insects / None

Curb Box: N / Y (key is: Hex / Pent / Other)

Trip Blank Field Data

Client/Project Name: <u>Windsor Meadows</u>	PROJECT #:	 FUSS & O'NEILL
Project Location: <u>Windsor CT</u>	<u>20170277.A3d</u>	
Sample#: <u>1643211008-05</u>	<u>Trip Blank Matrix</u> <u>Water</u>	

Sample Data		Container	Quantity	Preservative
Date: <u>10/8/21</u>	Time: <u>1400</u>	<u>VOA</u>	<u>2</u>	<u>HCl</u>
Sampler: <u>CAS</u>	Weather: <u>Cloudy 60°</u>			
Blank Supplied By: <u>Lab</u> F&O / Other _____				
Comments:				

Comments:

Appendix C

Laboratory Analytical Reports



Friday, July 31, 2020

Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RIVERFRONT RECAPTURE
SDG ID: GCG39766
Sample ID#s: CG39766 - CG39802

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, appearing to read "Phyllis Shiller".

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
UT Lab Registration #CT00007
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

July 31, 2020

SDG I.D.: GCG39766

Project ID: RIVERFRONT RECAPTURE

Client Id	Lab Id	Matrix
1622200723-01	CG39766	SOIL
1622200723-02	CG39767	SOIL
1622200723-03	CG39768	SOIL
1622200723-04	CG39769	SOIL
1622200723-05	CG39770	SOIL
1622200723-06	CG39771	SOIL
1622200723-07	CG39772	SOIL
1622200723-08	CG39773	SOIL
1622200723-09	CG39774	SOIL
1622200723-10	CG39775	SOIL
1622200723-11	CG39776	SOIL
1622200723-12	CG39777	SOIL
1622200723-13	CG39778	SOIL
1622200723-14	CG39779	SOIL
1622200723-15	CG39780	SOIL
1622200723-16	CG39781	SOIL
1622200723-17	CG39782	SOIL
1622200723-18	CG39783	SOIL
1622200723-19	CG39784	SOIL
1622200723-20	CG39785	SOIL
1622200723-21	CG39786	SOIL
1622200723-22	CG39787	SOIL
1622200723-23	CG39788	SOIL
1622200723-24	CG39789	SOIL
1622200723-25	CG39790	SOIL
1622200723-26	CG39791	SOIL
1622200723-27	CG39792	SOIL
1622200723-28	CG39793	SOIL
1622200723-29	CG39794	SOIL
1622200723-30	CG39795	SOIL



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Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

July 31, 2020

SDG I.D.: GCG39766

Project ID: RIVERFRONT RECAPTURE

Client Id	Lab Id	Matrix
1622200723-31	CG39796	SOIL
1622200723-32	CG39797	SOIL
1622200723-33	CG39798	SOIL
1622200723-34	CG39799	SOIL
1622200723-35	CG39800	SOIL
1622200723-36	CG39801	SOIL
1622200723-37	CG39802	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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

9:48
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39766

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	11	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	100	36	ug/Kg	10	07/24/20	CG	SW8081B
4,4' -DDT	89	36	ug/Kg	10	07/24/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	46	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	9.2	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	81		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	72		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	67		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	62		%	2	07/24/20	CG 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:

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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

9:52
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39767

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	8.4	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	58	7.1	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	31	7.1	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	5.7	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	80		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	68		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	61		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	60		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

9:59
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39768

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	110	35	ug/Kg	10	07/24/20	CG	SW8081B
4,4' -DDT	100	35	ug/Kg	10	07/24/20	CG	SW8081B
a-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	78	%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	73	%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	59		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	58		%	2	07/24/20	CG 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:

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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

10:10
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39769

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	66	35	ug/Kg	10	07/27/20	CG	SW8081B
4,4' -DDT	59	35	ug/Kg	10	07/27/20	CG	SW8081B
a-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	60		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	60		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	49		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	54		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

10:17
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39770

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/27/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
4,4' -DDE	57	7.2	ug/Kg	2	07/28/20	CG	SW8081B
4,4' -DDT	45	7.2	ug/Kg	2	07/28/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/28/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/28/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/28/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/28/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	07/28/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/28/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/28/20	CG	SW8081B

QA/QC Surrogates

% DCBP	64		%	2	07/28/20	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	07/28/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	54		%	2	07/28/20	CG 30 - 150 %
% TCMX (Confirmation)	47		%	2	07/28/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

10:21
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39771

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	91	35	ug/Kg	10	07/27/20	CG	SW8081B
4,4' -DDT	82	35	ug/Kg	10	07/27/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	45	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	8.8	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	67		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	75		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	59		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	62		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

10:24
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39772

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	73	37	ug/Kg	10	07/27/20	CG	SW8081B
4,4' -DDT	72	37	ug/Kg	10	07/27/20	CG	SW8081B
a-BHC	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	52		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	46		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	48		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

10:28
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39773

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	93	35	ug/Kg	10	07/27/20	CG	SW8081B
4,4' -DDT	110	35	ug/Kg	10	07/27/20	CG	SW8081B
a-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	55		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	60		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	50		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	55		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

10:35
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39774

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	48	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	32	7.2	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	61		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	61		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	44		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	45		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

10:59
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39775

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	34	7.1	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	39	7.1	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	43		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	52		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	39		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	47		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:02
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39776

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	73	7.3	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	71	7.3	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	39	37	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	70	%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	80	%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	67		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	74		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:06
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39777

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	51	6.7	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	40	6.7	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.3	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	33	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	33	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	93		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	81		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	61		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	67		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:08
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39778

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	52	6.9	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	51	6.9	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.4	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	34	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	34	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	61		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	74		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	57		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	62		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:10
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39779

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	66	6.8	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	64	34	ug/Kg	10	07/27/20	CG	SW8081B
a-BHC	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.4	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	50	34	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	7.6	6.8	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	34	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	70		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	80		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	64		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	72		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:12
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39780

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	77	35	ug/Kg	10	07/27/20	CG	SW8081B
4,4' -DDT	76	35	ug/Kg	10	07/27/20	CG	SW8081B
a-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	55	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	12	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	70		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	81		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	67		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	72		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:14
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39781

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	37	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	27	7.0	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	80		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	68		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	52		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	55		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:17
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39782

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	42	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	31	7.2	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	90		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	80		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	59		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	65		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:22
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39783

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	55	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	39	7.0	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	77		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	65		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	55		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	57		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:24
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39784

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	9.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	66	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	49	7.2	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	50	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	86	%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	73	%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	61		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	64		%	2	07/24/20	CG 30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Comments:

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Phyllis Shiller, Laboratory Director

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:27
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39785

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	8.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	74	7.3	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	70	7.3	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	49	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	8.1	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	50		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	59		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	47		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	52		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:30
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39786

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.6	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	73	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	71	7.2	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	51	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	7.6	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	49		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	43		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	62		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:33
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39787

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	100		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	65	6.7	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	44	6.7	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.3	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	33	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	6.7	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	33	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	67		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	49		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	44		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:35
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39788

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
4,4' -DDE	70	7.2	ug/Kg	2	07/25/20	CG	SW8081B
4,4' -DDT	56	36	ug/Kg	10	07/27/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/25/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/25/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/25/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/25/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Heptachlor epoxide	8.6	7.2	ug/Kg	2	07/25/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/25/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/25/20	CG	SW8081B

QA/QC Surrogates

% DCBP	58		%	2	07/25/20	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	07/25/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	52		%	2	07/25/20	CG 30 - 150 %
% TCMX (Confirmation)	53		%	2	07/25/20	CG 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

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Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:41
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39789

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	44	7.5	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	46	7.5	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	52		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	53		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	39		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	58		%	2	07/24/20	CG 30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

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Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:44
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39790

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	42	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	40	7.2	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	44	%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	46	%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	39		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	43		%	2	07/24/20	CG 30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

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

Analysis Report

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:54
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39791

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	77	7.4	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	71	7.4	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	50		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	59		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	54		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	55		%	2	07/24/20	CG 30 - 150 %
Client MS/MSD	Completed				07/24/20	

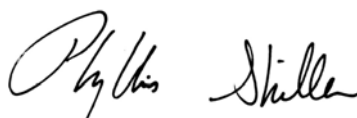
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:57
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39792

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	70	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	63	7.0	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	47		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	52		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	43		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	49		%	2	07/24/20	CG 30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

11:42
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39793

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-28

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	60	37	ug/Kg	10	07/28/20	CG	SW8081B
4,4' -DDT	65	7.4	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	43	37	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	6.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	3.0	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	9.0	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	68		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	83		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	74		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	115		%	2	07/24/20	CG 30 - 150 %

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:17
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39794

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	9.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	110	36	ug/Kg	10	07/28/20	CG	SW8081B
4,4' -DDT	93	36	ug/Kg	10	07/28/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	58	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	6.1	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	9.7	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	82		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	75		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	63		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	69		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:21
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39795

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-30

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/AA	SW3545A

Pesticides

4,4' -DDD	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	51	7.3	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDT	36	7.3	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	6.3	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	56		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	57		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	54		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	53		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:25
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39796

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-31

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	9.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	160	36	ug/Kg	10	07/24/20	CG	SW8081B
4,4' -DDT	130	36	ug/Kg	10	07/24/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	43	14	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	8.9	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	87	%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	84	%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	73		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	72		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:33
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39797

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-32

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	8.1	7.1	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	120	35	ug/Kg	10	07/24/20	CG	SW8081B
4,4' -DDT	100	35	ug/Kg	10	07/24/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	72	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	12	7.1	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	84		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	77		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	73		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	70		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:36
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39798

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-33

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	75	35	ug/Kg	10	07/28/20	CG	SW8081B
4,4' -DDT	57	35	ug/Kg	10	07/28/20	CG	SW8081B
a-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	79		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	81		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	79		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	72		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:39
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39799

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-34

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	170	36	ug/Kg	10	07/24/20	CG	SW8081B
4,4' -DDT	120	36	ug/Kg	10	07/24/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	74	36	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	11	7.2	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	85		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	74		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	62		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	63		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:41
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39800

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-35

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
4,4' -DDE	170	37	ug/Kg	10	07/25/20	CG	SW8081B
4,4' -DDT	150	37	ug/Kg	10	07/25/20	CG	SW8081B
a-BHC	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Alachlor	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	07/25/20	CG	SW8081B
b-BHC	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Chlordane	41	37	ug/Kg	2	07/25/20	CG	SW8081B
d-BHC	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/25/20	CG	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Endrin	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/25/20	CG	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	07/25/20	CG	SW8081B
Heptachlor epoxide	ND	9.6	ug/Kg	2	07/25/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/25/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/25/20	CG	SW8081B

QA/QC Surrogates

% DCBP	94		%	2	07/25/20	CG	30 - 150 %
% DCBP (Confirmation)	83		%	2	07/25/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	64		%	2	07/25/20	CG 30 - 150 %
% TCMX (Confirmation)	67		%	2	07/25/20	CG 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:

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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:43
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39801

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-36

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	140	35	ug/Kg	10	07/25/20	CG	SW8081B
4,4' -DDT	150	35	ug/Kg	10	07/25/20	CG	SW8081B
a-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	52	35	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	9.4	6.9	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	84		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	80		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	72		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	74		%	2	07/24/20	CG 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

July 31, 2020

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

July 31, 2020

FOR: Attn: Mr. Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

07/23/20
07/23/20

Time

12:50
14:07

Laboratory Data

SDG ID: GCG39766
Phoenix ID: CG39802

Project ID: RIVERFRONT RECAPTURE
Client ID: 1622200723-37

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		07/23/20	HB	SW846-%Solid
Soil Extraction for Pesticide	Completed				07/23/20	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
4,4' -DDE	64	37	ug/Kg	10	07/28/20	CG	SW8081B
4,4' -DDT	49	7.4	ug/Kg	2	07/24/20	CG	SW8081B
a-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Alachlor	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
b-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Chlordane	49	37	ug/Kg	2	07/24/20	CG	SW8081B
d-BHC	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	07/24/20	CG	SW8081B
Methoxychlor	ND	37	ug/Kg	2	07/24/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	07/24/20	CG	SW8081B

QA/QC Surrogates

% DCBP	95		%	2	07/24/20	CG	30 - 150 %
% DCBP (Confirmation)	84		%	2	07/24/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	66		%	2	07/24/20	CG 30 - 150 %
% TCMX (Confirmation)	69		%	2	07/24/20	CG 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

July 31, 2020

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

QA/QC Report

July 31, 2020

QA/QC Data

SDG I.D.: GCG39766

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 538586 (ug/Kg), QC Sample No: CG39768 2X (CG39766, CG39767, CG39768, CG39785, CG39786, CG39787, CG39788, CG39789, CG39790, CG39792, CG39793, CG39794, CG39795, CG39796, CG39797, CG39798, CG39799, CG39800, CG39801, CG39802)

Pesticides - Soil

4,4' -DDD	ND	1.7	82	74	10.3	73	71	2.8	40 - 140	30
4,4' -DDE	ND	1.7	87	74	16.1	NC	NC	NC	40 - 140	30
4,4' -DDT	ND	1.7	78	68	13.7	NC	NC	NC	40 - 140	30
a-BHC	ND	1.0	65	62	4.7	63	63	0.0	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	66	68	3.0	64	63	1.6	40 - 140	30
b-BHC	ND	1.0	71	67	5.8	70	72	2.8	40 - 140	30
Chlordane	ND	33	69	65	6.0	76	78	2.6	40 - 140	30
d-BHC	ND	3.3	60	57	5.1	55	56	1.8	40 - 140	30
Dieldrin	ND	1.0	73	68	7.1	70	69	1.4	40 - 140	30
Endosulfan I	ND	3.3	69	69	0.0	73	77	5.3	40 - 140	30
Endosulfan II	ND	3.3	79	71	10.7	74	73	1.4	40 - 140	30
Endosulfan sulfate	ND	3.3	81	78	3.8	59	62	5.0	40 - 140	30
Endrin	ND	3.3	70	66	5.9	73	72	1.4	40 - 140	30
Endrin aldehyde	ND	3.3	58	55	5.3	58	54	7.1	40 - 140	30
Endrin ketone	ND	3.3	83	77	7.5	87	88	1.1	40 - 140	30
g-BHC	ND	1.0	72	67	7.2	69	69	0.0	40 - 140	30
Heptachlor	ND	3.3	68	63	7.6	59	60	1.7	40 - 140	30
Heptachlor epoxide	ND	3.3	71	66	7.3	59	72	19.8	40 - 140	30
Methoxychlor	ND	3.3	81	77	5.1	98	93	5.2	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	76	%	98	93	5.2	98	95	3.1	30 - 150	30
% DCBP (Confirmation)	76	%	86	83	3.6	80	78	2.5	30 - 150	30
% TCMX	59	%	71	67	5.8	67	67	0.0	30 - 150	30
% TCMX (Confirmation)	61	%	74	69	7.0	69	67	2.9	30 - 150	30

QA/QC Batch 538587 (ug/Kg), QC Sample No: CG39791 2X (CG39769, CG39771, CG39772, CG39773, CG39774, CG39775, CG39776, CG39777, CG39778, CG39779, CG39780, CG39781, CG39782, CG39783, CG39784, CG39791)

Pesticides - Soil

4,4' -DDD	ND	1.7	79	66	17.9	83	73	12.8	40 - 140	30
4,4' -DDE	ND	1.7	74	64	14.5	NC	NC	NC	40 - 140	30
4,4' -DDT	ND	1.7	81	69	16.0	NC	NC	NC	40 - 140	30
a-BHC	ND	1.0	68	59	14.2	67	67	0.0	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	77	69	11.0	75	73	2.7	40 - 140	30
b-BHC	ND	1.0	70	60	15.4	81	80	1.2	40 - 140	30
Chlordane	ND	33	85	72	16.6	101	85	17.2	40 - 140	30
d-BHC	ND	3.3	69	60	14.0	72	68	5.7	40 - 140	30
Dieldrin	ND	1.0	80	67	17.7	82	72	13.0	40 - 140	30
Endosulfan I	ND	3.3	83	72	14.2	96	64	40.0	40 - 140	30

QA/QC Data

SDG I.D.: GCG39766

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endosulfan II	ND	3.3	81	69	16.0	76	70	8.2	40 - 140	30
Endosulfan sulfate	ND	3.3	89	77	14.5	87	75	14.8	40 - 140	30
Endrin	ND	3.3	75	64	15.8	75	67	11.3	40 - 140	30
Endrin aldehyde	ND	3.3	66	59	11.2	70	53	27.6	40 - 140	30
Endrin ketone	ND	3.3	88	71	21.4	84	74	12.7	40 - 140	30
g-BHC	ND	1.0	66	58	12.9	85	94	10.1	40 - 140	30
Heptachlor	ND	3.3	62	53	15.7	60	56	6.9	40 - 140	30
Heptachlor epoxide	ND	3.3	78	68	13.7	96	75	24.6	40 - 140	30
Methoxychlor	ND	3.3	89	74	18.4	98	86	13.0	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	71	%	81	65	21.9	74	72	2.7	30 - 150	30
% DCBP (Confirmation)	83	%	86	72	17.7	81	79	2.5	30 - 150	30
% TCMX	66	%	68	61	10.9	73	72	1.4	30 - 150	30
% TCMX (Confirmation)	70	%	70	64	9.0	73	71	2.8	30 - 150	30

QA/QC Batch 538943 (ug/Kg), QC Sample No: CG41252 2X (CG39770)

Pesticides - Soil

4,4' -DDD	ND	1.7	95	91	4.3	83	93	11.4	40 - 140	30
4,4' -DDE	ND	1.7	87	82	5.9	81	87	7.1	40 - 140	30
4,4' -DDT	ND	1.7	91	84	8.0	107	96	10.8	40 - 140	30
a-BHC	ND	1.0	71	69	2.9	63	77	20.0	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	80	73	9.2	69	83	18.4	40 - 140	30
b-BHC	ND	1.0	83	80	3.7	77	86	11.0	40 - 140	30
Chlordane	ND	33	87	81	7.1	80	87	8.4	40 - 140	30
d-BHC	ND	3.3	66	66	0.0	72	81	11.8	40 - 140	30
Dieldrin	ND	1.0	83	80	3.7	75	86	13.7	40 - 140	30
Endosulfan I	ND	3.3	88	81	8.3	76	87	13.5	40 - 140	30
Endosulfan II	ND	3.3	92	85	7.9	78	87	10.9	40 - 140	30
Endosulfan sulfate	ND	3.3	88	81	8.3	77	88	13.3	40 - 140	30
Endrin	ND	3.3	85	78	8.6	75	86	13.7	40 - 140	30
Endrin aldehyde	ND	3.3	77	76	1.3	71	86	19.1	40 - 140	30
Endrin ketone	ND	3.3	91	90	1.1	78	90	14.3	40 - 140	30
g-BHC	ND	1.0	71	69	2.9	63	76	18.7	40 - 140	30
Heptachlor	ND	3.3	79	76	3.9	68	85	22.2	40 - 140	30
Heptachlor epoxide	ND	3.3	84	80	4.9	76	86	12.3	40 - 140	30
Methoxychlor	ND	3.3	95	88	7.7	83	96	14.5	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	82	%	92	83	10.3	81	88	8.3	30 - 150	30
% DCBP (Confirmation)	90	%	94	89	5.5	90	91	1.1	30 - 150	30
% TCMX	68	%	72	71	1.4	66	82	21.6	30 - 150	30
% TCMX (Confirmation)	67	%	68	69	1.5	66	77	15.4	30 - 150	30

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
 July 31, 2020

Friday, July 31, 2020

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCG39766 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG39766	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	89	36	20	20	ug/Kg
CG39766	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	100	36	20	20	ug/Kg
CG39767	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	58	7.1	20	20	ug/Kg
CG39767	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	31	7.1	20	20	ug/Kg
CG39768	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	110	35	20	20	ug/Kg
CG39768	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	100	35	20	20	ug/Kg
CG39769	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	66	35	20	20	ug/Kg
CG39769	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	59	35	20	20	ug/Kg
CG39770	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	57	7.2	20	20	ug/Kg
CG39770	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	45	7.2	20	20	ug/Kg
CG39771	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	82	35	20	20	ug/Kg
CG39771	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	91	35	20	20	ug/Kg
CG39772	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	73	37	20	20	ug/Kg
CG39772	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	72	37	20	20	ug/Kg
CG39773	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	93	35	20	20	ug/Kg
CG39773	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	110	35	20	20	ug/Kg
CG39774	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	48	7.2	20	20	ug/Kg
CG39774	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	32	7.2	20	20	ug/Kg
CG39775	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	34	7.1	20	20	ug/Kg
CG39775	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	39	7.1	20	20	ug/Kg
CG39776	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	73	7.3	20	20	ug/Kg
CG39776	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	71	7.3	20	20	ug/Kg
CG39777	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	51	6.7	20	20	ug/Kg
CG39777	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	40	6.7	20	20	ug/Kg
CG39778	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	52	6.9	20	20	ug/Kg
CG39778	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	51	6.9	20	20	ug/Kg
CG39779	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	66	6.8	20	20	ug/Kg
CG39779	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	64	34	20	20	ug/Kg
CG39780	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	77	35	20	20	ug/Kg
CG39780	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	76	35	20	20	ug/Kg

Friday, July 31, 2020

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCG39766 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG39781	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	27	7.0	20	20	ug/Kg
CG39781	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	37	7.0	20	20	ug/Kg
CG39782	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	42	7.2	20	20	ug/Kg
CG39782	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	31	7.2	20	20	ug/Kg
CG39783	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	55	7.0	20	20	ug/Kg
CG39783	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	39	7.0	20	20	ug/Kg
CG39784	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	66	7.2	20	20	ug/Kg
CG39784	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	49	7.2	20	20	ug/Kg
CG39785	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	70	7.3	20	20	ug/Kg
CG39785	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	74	7.3	20	20	ug/Kg
CG39786	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	73	7.2	20	20	ug/Kg
CG39786	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	71	7.2	20	20	ug/Kg
CG39787	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	65	6.7	20	20	ug/Kg
CG39787	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	44	6.7	20	20	ug/Kg
CG39788	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	70	7.2	20	20	ug/Kg
CG39788	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	56	36	20	20	ug/Kg
CG39789	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	46	7.5	20	20	ug/Kg
CG39789	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	44	7.5	20	20	ug/Kg
CG39790	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	42	7.2	20	20	ug/Kg
CG39790	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	40	7.2	20	20	ug/Kg
CG39791	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	77	7.4	20	20	ug/Kg
CG39791	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	71	7.4	20	20	ug/Kg
CG39792	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	70	7.0	20	20	ug/Kg
CG39792	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	63	7.0	20	20	ug/Kg
CG39793	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	60	37	20	20	ug/Kg
CG39793	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	65	7.4	20	20	ug/Kg
CG39794	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	93	36	20	20	ug/Kg
CG39794	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	110	36	20	20	ug/Kg
CG39795	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	51	7.3	20	20	ug/Kg
CG39795	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	36	7.3	20	20	ug/Kg

Friday, July 31, 2020

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCG39766 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG39796	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	160	36	20	20	ug/Kg
CG39796	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	130	36	20	20	ug/Kg
CG39797	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	120	35	20	20	ug/Kg
CG39797	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	100	35	20	20	ug/Kg
CG39797	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	72	35	66	66	ug/Kg
CG39797	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	72	35	66	66	ug/Kg
CG39798	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	57	35	20	20	ug/Kg
CG39798	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	75	35	20	20	ug/Kg
CG39799	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	74	36	66	66	ug/Kg
CG39799	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	170	36	20	20	ug/Kg
CG39799	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	120	36	20	20	ug/Kg
CG39799	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	74	36	66	66	ug/Kg
CG39800	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	170	37	20	20	ug/Kg
CG39800	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	150	37	20	20	ug/Kg
CG39801	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	140	35	20	20	ug/Kg
CG39801	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	150	35	20	20	ug/Kg
CG39802	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	49	7.4	20	20	ug/Kg
CG39802	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	64	37	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 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: Fuss & O'Neill, Inc.

Project Location: RIVERFRONT RECAPTURE

Project Number:

Laboratory Sample ID(s): CG39766-CG39802

Sampling Date(s): 7/23/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8081

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?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ 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)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☒ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Section: PEST Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ 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?	☒ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☒ Yes ☐ 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:** Friday, July 31, 2020

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

July 31, 2020

SDG I.D.: GCG39766

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 538587 (Samples: CG39769, CG39771, CG39772, CG39773, CG39774, CG39775, CG39776, CG39777, CG39778, CG39779, CG39780, CG39781, CG39782, CG39783, CG39784, CG39791): -----

The MS/MSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample. No significant bias is suspected. (Endosulfan I)

Instrument:

AU-ECD35 07/24/20-1

Chelsey Guerette, Chemist 07/24/20

CG39766 (2X, 10X), CG39768 (2X, 10X), CG39796 (2X, 10X), CG39797 (2X, 10X), CG39801 (2X, 10X)

The initial calibration (PS0722AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0522BI) 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: CG39766, CG39768, CG39796, CG39797, CG39801

Preceding CC 724A039 - b-BHC -32%L (20%)

Succeeding CC 724A052 - b-BHC -30%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 07/28/20-1

Chelsey Guerette, Chemist 07/28/20

CG39770 (2X)

The initial calibration (PS0722AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0722BI) 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: CG39770

Preceding CC 728A004 - None.

Succeeding CC 728A020 - b-BHC -32%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 07/24/20-1

Chelsey Guerette, Chemist 07/24/20

CG39769 (2X), CG39771 (2X), CG39772 (2X), CG39773 (2X), CG39775 (2X), CG39776 (2X), CG39778 (2X), CG39779 (2X), CG39780 (2X), CG39785 (2X), CG39786 (2X), CG39788 (2X), CG39789 (2X), CG39790 (2X), CG39791 (2X), CG39792 (2X), CG39793 (2X), CG39795 (2X), CG39798 (2X), CG39800 (2X, 10X)

The initial calibration (PS0720AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0720BI) 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: CG39776, CG39778, CG39779, CG39780, CG39793

Preceding CC 724A004 - None.

Succeeding CC 724A026 - b-BHC -42%L (20%), Endrin aldehyde -25%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: CG39771, CG39775, CG39791, CG39792, CG39798



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RCP Certification Report

July 31, 2020

SDG I.D.: GCG39766

PEST Narration

Preceding CC 724A026 - b-BHC -42%L (20%), Endrin aldehyde -25%L (20%)
Succeeding CC 724A040 - b-BHC -42%L (20%), Endrin aldehyde -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.
Samples: CG39769, CG39772, CG39773, CG39785, CG39786, CG39789, CG39790, CG39795
Preceding CC 724A040 - b-BHC -42%L (20%), Endrin aldehyde -27%L (20%)
Succeeding CC 724A053 - 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.

AU-ECD4 07/27/20-1 Chelsey Guerette, Chemist 07/27/20

CG39769 (10X), CG39771 (10X), CG39772 (10X), CG39773 (10X), CG39779 (10X), CG39780 (10X), CG39788 (10X), CG39793 (10X), CG39794 (10X), CG39798 (10X), CG39802 (10X)

The initial calibration (PS0720AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0720BI) 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-ECD7 07/24/20-1 Chelsey Guerette, Chemist 07/24/20

CG39767 (2X), CG39774 (2X), CG39777 (2X), CG39781 (2X), CG39782 (2X), CG39783 (2X), CG39784 (2X), CG39787 (2X), CG39794 (2X), CG39799 (2X, 10X), CG39802 (2X)

The initial calibration (PS0717AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0717BI) 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: CG39777

Preceding CC 724A004 - None.

Succeeding CC 724A020 - b-BHC -36%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: CG39767, CG39774, CG39781, CG39782, CG39783, CG39784, CG39787, CG39794, CG39799, CG39802

Preceding CC 724A020 - b-BHC -36%L (20%)

Succeeding CC 724A037 - b-BHC -35%L (20%), Endosulfan sulfate -21%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 538943 (CG41252)

CG39770

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 538586 (CG39768)

CG39766, CG39767, CG39768, CG39785, CG39786, CG39787, CG39788, CG39789, CG39790, CG39792, CG39793, CG39794, CG39795,



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RCP Certification Report

July 31, 2020

SDG I.D.: GCG39766

PEST Narration

CG39796, CG39797, CG39798, CG39799, CG39800, CG39801, CG39802

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.

Batch 538587 (CG39791)

CG39769, CG39771, CG39772, CG39773, CG39774, CG39775, CG39776, CG39777, CG39778, CG39779, CG39780, CG39781, CG39782, CG39783, CG39784, CG39791

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.

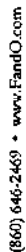
All MSD recoveries were within 30 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: Endosulfan I(40.0%)

Temperature Narration

The samples were received at 6.0C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



- ☐ 540 North Commercial Street, Manchester, NH 03101
- ☐ 276 Newport Road, New London, NH 03257
- ☐ 205 Billings Farm Road, Suite 6R, White River Junction, VT 05001
- ☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
- ☐ 23046 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

44174

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____ _____ Duplicates _____ Blanks (Item Nos: _____)
1			7/23/20	1407	Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
2					67BANC, RESDEC, 1/c DEC
3					Additional Comments:
4					



FUSS & O'NEILL

(860) 646-2469 • www.FandO.com

- ☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ 540 North Commercial Street, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 68, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

Other _____

CHAIN-OF-CUSTODY RECORD 44170

44170

44170

PROJECT NAME

PROJECT LOCATION

PROJECT NUMBER

LABORATORY

RIVERFRONT RECAPTURE

HARTFORD + WINDSOR, CT

20170277-A30

PHOENIX

REPORT TO:

DAN JAHANE (F&O)

Analysis Request

Containers

INVOICE TO:

↓

Analysis Request

Containers

P.O. No.:

↓

Analysis Request

Containers

Sampler's Signature:

Ar

Date: 7/23/20

Source Codes:

MW=Monitoring Well PW=Potable Water T=Treatment Facility B=Sediment

SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other _____

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
					1622200723-11	S	7/23/20	1107 X
					-12			1106
					-13			1108
					-14			1110
					-15			1112
					-16			1114
					-17			1117
					-18			1122
					-19			1124
					-20			1127

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
					1622200723-11	S	7/23/20	1107 X
					-12			1106
					-13			1108
					-14			1110
					-15			1112
					-16			1114
					-17			1117
					-18			1122
					-19			1124
					-20			1127

Comments

397710
397717
397718
397719
39780
39781
39782
39783
39784
39785

Transfer Number	Relinquished By	Accepted By	Date	Time
1	<i>Ar</i>	<i>WMS</i>	7/23/20	1407
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates _____ Blanks (Item Nos: _____)

Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.

GBPMC, RES INC, 11c DEC

Additional Comments:

- ☐ 540 North Commercial Street, Manchester, NH 03101
- ☐ 276 Newport Road, New London, NH 03257
- ☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
- ☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
- ☐ 23040 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

CHAIN-OF-CUSTODY RECORD 44176

PROJECT NAME						PROJECT LOCATION						PROJECT NUMBER						LABORATORY					
LIVERFRONT RECAPTURE						HARTFORD + WINDSOR, CT						2017-02-27-A-30						PHOENIX					
REPORT TO: DON JAHANE (FID)																							
INVOICE TO:																							
P.O. No.:																							
Sampler's Signature:						Date: 7/23/20																	
Source Codes:						T=Treatment Facility						S=Soil						B=Sediment					
MW=Monitoring Well						PW=Potable Water						ST=Stormwater						W=Waste A=Air C=Concrete					
SW=Surface Water																							
X=Other																							
Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled	ANALYSIS REQUESTED														
	1	2	3	4																			
					1622200723 - 21	S	7/23/20	1130	X														
					-22			1133															
					-23			1135															
					-24			1141															
					-25			1144															
					-26			1154															
					-27			1157															
					-28			1162															
					-29			1217															
					-30			1221															
										RESIDUES													
										Soil VOA Vial □ methanol □ Na(SO) ₄													
										Glass Soil Container () or													
										Other													
										Water VOA Vial □ As is □ HCl													
										Glass Amber () ml □ As is □ H ₂ O ₂													
										Plastic - As is □ 250 ml □ 500 ml													
										Plastic - HNO ₃ □ 250 ml □ filtered □ 0.45 μ □ 10 μ													
										Plastic - NaOH, 250 ml													
										Comments													
										39780													
										39787													
										39788													
										39789													
										39790													
										MS/MASD													
										39792													
										39793													
										39794													
										39795													

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions: ☐ CI Tax Exempt ☐ QM/QC ☐ Other _____ ☒ 1 Duplicates _____ Blanks (Item Nos: _____)
1	<i>ZZZ</i>	<i>[Signature]</i>	<i>2/23/20</i>	<i>1407</i>	Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
2					
3					Additional Comments: <i>BBPMC, RES DEC, 1/C DEC</i>
4					



FUSS & O'NEILL

(860) 646-2469 • www.FandO.com

- ☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ 540 North Commercial Street, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

☐ Other _____

CHAIN-OF-CUSTODY RECORD 44175

PROJECT NAME

PROJECT LOCATION

PROJECT NUMBER

LABORATORY

RIVERFRONT RECAPTURE

HARTFORD + WINDSOR, CT

20170227.830

PHENIX

REPORT TO: DAN JAHNE (FFO)

Analysis Request

Containers

INVOICE TO:



P.O. No.:

Sampler's Signature: *[Signature]*

Date: 8/23/20

Source Codes:

MW=Monitoring Well
SW=Surface Water

PW=Potable Water
ST=Stormwater

T=Treatment Facility
W=Waste

S=Soil
C=Concrete

B=Sediment
C=Concrete

X=Other _____

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
					11622800723-31	S	7/23/20	1200 X
					-32			1233
					-33			1236
					-34			1239
					-35			1241
					-36			1243
					-37			1250

Pesticides		Soil VOA Val. ☐ methanol		Glass Soil Container () oz		Other		Water VOA Val. ☐ As is ☐ HCl		Glass Amber () ml ☐ As is ☐ H ₂ SO ₄		Plastic - As is ☐ 250 ml ☐ 500 ml ☐ 1000 ml		Plastic - HNO ₃ ☐ 250 ml ☐ 500 ml ☐ 1000 ml		Plastic - NaOH ☐ 250 ml ☐ 500 ml ☐ 1000 ml		Comments	

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions: ☐ C1 Tax Exempt ☐ QA/QC ☐ Other _____
1	<i>[Signature]</i>	<i>[Signature]</i>	7/23/20	1407	☐ Duplicates _____ Blanks (Item Nos. _____)
2					Reporting and Detection Limit Requirements: ☒ MCP Deliverables ☐ MCP CAM Cert.
3					GB PMC, Ras DEC, 11C DEC
4					Additional Comments:



Monday, August 24, 2020

Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RIVERFRONT/W MSP
SDG ID: GCG54942
Sample ID#s: CG54942 - CG54948, CG54950 - CG54952, CG54954 - CG54955,
CG54957 - CG54965

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, appearing to read "Phyllis Shiller".

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
UT Lab Registration #CT00007
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 24, 2020

SDG I.D.: GCG54942

Project ID: RIVERFRONT/W MSP

Client Id	Lab Id	Matrix
1305200817-01	CG54942	SOIL
1305200817-02	CG54943	SOIL
1305200817-03	CG54944	SOIL
1305200817-04	CG54945	SOIL
1305200817-05	CG54946	SOIL
1305200817-06	CG54947	SOIL
1305200817-07	CG54948	SOIL
1305200817-09	CG54950	SOIL
1305200817-10	CG54951	SOIL
1305200817-11	CG54952	SOIL
1305200817-13	CG54954	SOIL
1305200817-14	CG54955	SOIL
1305200817-16	CG54957	SOIL
1305200817-17	CG54958	SOIL
1305200817-18	CG54959	SOIL
1305200817-19	CG54960	SOIL
1305200817-20	CG54961	SOIL
1305200817-21	CG54962	SOIL
1305200817-22	CG54963	SOIL
1305200817-23	CG54964	SOIL
1305200817-24	CG54965	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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

8:32
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54942

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.31	0.31	mg/Kg	1	08/18/20	CPP	SW6010D
Arsenic	2.90	0.63	mg/Kg	1	08/18/20	CPP	SW6010D
Barium	65.0	0.31	mg/Kg	1	08/18/20	CPP	SW6010D
Cadmium	0.78	0.31	mg/Kg	1	08/18/20	CPP	SW6010D
Chromium	15.9	0.31	mg/Kg	1	08/18/20	CPP	SW6010D
Mercury	0.14	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	103	0.31	mg/Kg	1	08/18/20	CPP	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	08/18/20	CPP	SW6010D
Percent Solid	95		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/17/20	R/A	SW3546
Total Metals Digest	Completed				08/17/20	F/AG/BF	SW3050B

Pesticides

4,4' -DDD	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
4,4' -DDE	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
4,4' -DDT	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
a-BHC	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
Alachlor	ND	35	ug/Kg	10	08/20/20	PS	SW8081B
Aldrin	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
b-BHC	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
Chlordane	ND	66	ug/Kg	10	08/20/20	PS	SW8081B
d-BHC	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
Dieldrin	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
Endosulfan I	ND	35	ug/Kg	10	08/20/20	PS	SW8081B
Endosulfan II	ND	35	ug/Kg	10	08/20/20	PS	SW8081B
Endosulfan sulfate	ND	35	ug/Kg	10	08/20/20	PS	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Endrin	ND	35	ug/Kg	10	08/20/20	PS	SW8081B
Endrin aldehyde	ND	35	ug/Kg	10	08/20/20	PS	SW8081B
Endrin ketone	ND	35	ug/Kg	10	08/20/20	PS	SW8081B
g-BHC	ND	7.0	ug/Kg	10	08/20/20	PS	SW8081B
Heptachlor	ND	13	ug/Kg	10	08/20/20	PS	SW8081B
Heptachlor epoxide	ND	17	ug/Kg	10	08/20/20	PS	SW8081B
Methoxychlor	ND	170	ug/Kg	10	08/20/20	PS	SW8081B
Toxaphene	ND	500	ug/Kg	10	08/20/20	PS	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	137		%	10	08/20/20	PS	30 - 150 %
% DCBP (Confirmation)	143		%	10	08/20/20	PS	30 - 150 %
% TCMX	112		%	10	08/20/20	PS	30 - 150 %
% TCMX (Confirmation)	103		%	10	08/20/20	PS	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,3-Trichloropropane	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,2-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,3-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
1,4-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
2-Chlorotoluene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
2-Hexanone	ND	26	ug/Kg	1	08/18/20	JLI	SW8260
2-Isopropyltoluene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
4-Chlorotoluene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	1	08/18/20	JLI	SW8260
Acetone	ND	260	ug/Kg	1	08/18/20	JLI	SW8260
Acrylonitrile	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
Benzene	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
Bromobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
Bromochloromethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
Bromoform	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
Bromomethane	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	1	08/18/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Carbon tetrachloride	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	3.1	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Isopropylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
m&p-Xylene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
n-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
n-Propylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
o-Xylene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
sec-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Styrene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Tetrachloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Toluene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Total Xylenes	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	540	ug/Kg	50	08/18/20	JLI SW8260
Trichloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Vinyl chloride	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	95		%	1	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene	78		%	1	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane	120		%	1	08/18/20	JLI 70 - 130 %
% Toluene-d8	80		%	1	08/18/20	JLI 70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	102		%	50	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	96		%	50	08/18/20	JLI 70 - 130 %
% Toluene-d8 (50x)	99		%	50	08/18/20	JLI 70 - 130 %
<u>Polynuclear Aromatic HC</u>						
2-Methylnaphthalene	ND	2500	ug/Kg	10	08/18/20	AW SW8270D
Acenaphthene	ND	2500	ug/Kg	10	08/18/20	AW SW8270D
Acenaphthylene	ND	2500	ug/Kg	10	08/18/20	AW SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Anthracene	ND	2500	ug/Kg	10	08/18/20	AW SW8270D
Benz(a)anthracene	7300	2500	ug/Kg	10	08/18/20	AW SW8270D
Benzo(a)pyrene	8500	2500	ug/Kg	10	08/18/20	AW SW8270D
Benzo(b)fluoranthene	7400	2500	ug/Kg	10	08/18/20	AW SW8270D
Benzo(ghi)perylene	5200	2500	ug/Kg	10	08/18/20	AW SW8270D
Benzo(k)fluoranthene	6500	2500	ug/Kg	10	08/18/20	AW SW8270D
Chrysene	7400	2500	ug/Kg	10	08/18/20	AW SW8270D
Dibenz(a,h)anthracene	1200	1100	ug/Kg	10	08/18/20	AW SW8270D
Fluoranthene	16000	2500	ug/Kg	10	08/18/20	AW SW8270D
Fluorene	ND	2500	ug/Kg	10	08/18/20	AW SW8270D
Indeno(1,2,3-cd)pyrene	5700	2500	ug/Kg	10	08/18/20	AW SW8270D
Naphthalene	ND	2500	ug/Kg	10	08/18/20	AW SW8270D
Phenanthrene	6100	2500	ug/Kg	10	08/18/20	AW SW8270D
Pyrene	15000	2500	ug/Kg	10	08/18/20	AW SW8270D
QA/QC Surrogates						
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	08/18/20	AW 30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	08/18/20	AW 30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	08/18/20	AW 30 - 130 %
Field Extraction	Completed				08/17/20	SW5035A

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:

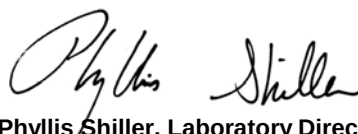
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.

Pesticide 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.

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

8:40
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54943

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Arsenic	1.88	0.72	mg/Kg	1	08/18/20	CPP	SW6010D
Barium	64.2	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Cadmium	0.69	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Chromium	13.8	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	21.7	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	08/18/20	CPP	SW6010D
Percent Solid	97		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/17/20	R/A	SW3546
Total Metals Digest	Completed				08/17/20	F/AG/BF	SW3050B

Pesticides

4,4' -DDD	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDE	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDT	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
a-BHC	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Alachlor	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Aldrin	ND	3.4	ug/Kg	2	08/19/20	CG	SW8081B
b-BHC	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Chlordane	ND	34	ug/Kg	2	08/19/20	CG	SW8081B
d-BHC	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan I	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan II	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan sulfate	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Endrin	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
Endrin aldehyde	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
Endrin ketone	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
g-BHC	ND	2.0	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor epoxide	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
Methoxychlor	ND	34	ug/Kg	2	08/19/20	CG SW8081B
Toxaphene	ND	140	ug/Kg	2	08/19/20	CG SW8081B
<u>QA/QC Surrogates</u>						
% DCBP	128		%	2	08/19/20	CG 30 - 150 %
% DCBP (Confirmation)	113		%	2	08/19/20	CG 30 - 150 %
% TCMX	106		%	2	08/19/20	CG 30 - 150 %
% TCMX (Confirmation)	93		%	2	08/19/20	CG 30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	08/18/20	JLI SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,2,3-Trichlorobenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
1,2,3-Trichloropropane	ND	300	ug/Kg	50	08/18/20	JLI SW8260
1,2,4-Trichlorobenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
1,2,4-Trimethylbenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichlorobenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichlorobenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
1,4-Dichlorobenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
2-Chlorotoluene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
2-Hexanone	ND	25	ug/Kg	1	08/18/20	JLI SW8260
2-Isopropyltoluene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
4-Chlorotoluene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	08/18/20	JLI SW8260
Acetone	ND	250	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
Bromochloromethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Bromoform	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Carbon tetrachloride	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
Isopropylbenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
m&p-Xylene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
n-Butylbenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
n-Propylbenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
o-Xylene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
sec-Butylbenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
Styrene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	300	ug/Kg	50	08/18/20	JLI SW8260
Tetrachloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Toluene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Total Xylenes	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	600	ug/Kg	50	08/18/20	JLI SW8260
Trichloroethene	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Vinyl chloride	ND	5.1	ug/Kg	1	08/18/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	95		%	1	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene	76		%	1	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane	108		%	1	08/18/20	JLI 70 - 130 %
% Toluene-d8	86		%	1	08/18/20	JLI 70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	102		%	50	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	08/18/20	JLI 70 - 130 %
% Toluene-d8 (50x)	99		%	50	08/18/20	JLI 70 - 130 %
<u>Polynuclear Aromatic HC</u>						
2-Methylnaphthalene	ND	2300	ug/Kg	10	08/18/20	AW SW8270D
Acenaphthene	ND	2300	ug/Kg	10	08/18/20	AW SW8270D
Acenaphthylene	ND	2300	ug/Kg	10	08/18/20	AW SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Anthracene	ND	2300	ug/Kg	10	08/18/20	AW SW8270D
Benz(a)anthracene	1900	1100	ug/Kg	10	08/18/20	AW SW8270D
Benzo(a)pyrene	2200	1100	ug/Kg	10	08/18/20	AW SW8270D
Benzo(b)fluoranthene	1600	1100	ug/Kg	10	08/18/20	AW SW8270D
Benzo(ghi)perylene	1500	1100	ug/Kg	10	08/18/20	AW SW8270D
Benzo(k)fluoranthene	1400	1100	ug/Kg	10	08/18/20	AW SW8270D
Chrysene	1900	1100	ug/Kg	10	08/18/20	AW SW8270D
Dibenz(a,h)anthracene	ND	1100	ug/Kg	10	08/18/20	AW SW8270D
Fluoranthene	2600	2300	ug/Kg	10	08/18/20	AW SW8270D
Fluorene	ND	2300	ug/Kg	10	08/18/20	AW SW8270D
Indeno(1,2,3-cd)pyrene	1400	1100	ug/Kg	10	08/18/20	AW SW8270D
Naphthalene	ND	2300	ug/Kg	10	08/18/20	AW SW8270D
Phenanthrene	ND	2300	ug/Kg	10	08/18/20	AW SW8270D
Pyrene	3400	2300	ug/Kg	10	08/18/20	AW SW8270D
QA/QC Surrogates						
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	08/18/20	AW 30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	08/18/20	AW 30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	08/18/20	AW 30 - 130 %
Field Extraction	Completed				08/17/20	SW5035A

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

8:50
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54944

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Arsenic	4.83	0.71	mg/Kg	1	08/18/20	CPP	SW6010D
Barium	75.3	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Cadmium	0.95	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Chromium	20.5	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	34.9	0.36	mg/Kg	1	08/18/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	08/18/20	CPP	SW6010D
Percent Solid	90		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/17/20	R/N	SW3546
Total Metals Digest	Completed				08/17/20	F/AG/BF	SW3050B

Pesticides

4,4' -DDD	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
a-BHC	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.7	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	ND	37	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	08/20/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Endrin	ND	7.4	ug/Kg	2	08/20/20	CG SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	08/20/20	CG SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	08/20/20	CG SW8081B
g-BHC	ND	1.5	ug/Kg	2	08/20/20	CG SW8081B
Heptachlor	ND	7.4	ug/Kg	2	08/20/20	CG SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	08/20/20	CG SW8081B
Methoxychlor	ND	37	ug/Kg	2	08/20/20	CG SW8081B
Toxaphene	ND	150	ug/Kg	2	08/20/20	CG SW8081B
<u>QA/QC Surrogates</u>						
% DCBP	144		%	2	08/20/20	CG 30 - 150 %
% DCBP (Confirmation)	105		%	2	08/20/20	CG 30 - 150 %
% TCMX	118		%	2	08/20/20	CG 30 - 150 %
% TCMX (Confirmation)	93		%	2	08/20/20	CG 30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	08/18/20	JLI SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
2-Chlorotoluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
2-Hexanone	ND	23	ug/Kg	1	08/18/20	JLI SW8260
2-Isopropyltoluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
4-Chlorotoluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	08/18/20	JLI SW8260
Acetone	ND	230	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromoform	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Carbon tetrachloride	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Isopropylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
m&p-Xylene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	9.2	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
n-Butylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
n-Propylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
o-Xylene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
sec-Butylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Styrene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Tetrachloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	9.2	ug/Kg	1	08/18/20	JLI SW8260
Toluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Total Xylenes	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	9.2	ug/Kg	1	08/18/20	JLI SW8260
Trichloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	9.2	ug/Kg	1	08/18/20	JLI SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	98		%	1	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene	97		%	1	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane	99		%	1	08/18/20	JLI 70 - 130 %
% Toluene-d8	98		%	1	08/18/20	JLI 70 - 130 %
<u>Polynuclear Aromatic HC</u>						
2-Methylnaphthalene	ND	250	ug/Kg	1	08/18/20	AW SW8270D
Acenaphthene	ND	250	ug/Kg	1	08/18/20	AW SW8270D
Acenaphthylene	ND	250	ug/Kg	1	08/18/20	AW SW8270D
Anthracene	ND	250	ug/Kg	1	08/18/20	AW SW8270D
Benz(a)anthracene	360	250	ug/Kg	1	08/18/20	AW SW8270D
Benzo(a)pyrene	380	250	ug/Kg	1	08/18/20	AW SW8270D
Benzo(b)fluoranthene	350	250	ug/Kg	1	08/18/20	AW SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Benzo(ghi)perylene	270	250	ug/Kg	1	08/18/20	AW	SW8270D
Benzo(k)fluoranthene	290	250	ug/Kg	1	08/18/20	AW	SW8270D
Chrysene	370	250	ug/Kg	1	08/18/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	08/18/20	AW	SW8270D
Fluoranthene	670	250	ug/Kg	1	08/18/20	AW	SW8270D
Fluorene	ND	250	ug/Kg	1	08/18/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	260	250	ug/Kg	1	08/18/20	AW	SW8270D
Naphthalene	ND	250	ug/Kg	1	08/18/20	AW	SW8270D
Phenanthrene	410	250	ug/Kg	1	08/18/20	AW	SW8270D
Pyrene	610	250	ug/Kg	1	08/18/20	AW	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	08/18/20	AW	30 - 130 %
% Nitrobenzene-d5	87		%	1	08/18/20	AW	30 - 130 %
% Terphenyl-d14	101		%	1	08/18/20	AW	30 - 130 %
Field Extraction	Completed				08/17/20		SW5035A

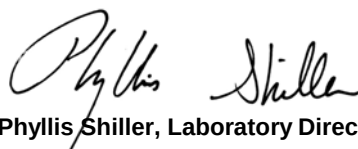
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

9:30
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54945

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A

Pesticides

4,4' -DDD	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
a-BHC	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endrin	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endrin aldehyde	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endrin ketone	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor epoxide	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	08/20/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	08/20/20	CG	SW8081B

QA/QC Surrogates

% DCBP	Interference	%	2	08/20/20	CG	30 - 150 %
% DCBP (Confirmation)	Interference	%	2	08/20/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	85		%	2	08/20/20	CG 30 - 150 %
% TCMX (Confirmation)	Interference		%	2	08/20/20	CG 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:

Pesticide Comment:

Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, surrogate recoveries could not be reported.

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

10:00
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54946

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	08/18/20	CPP	SW6010D
Arsenic	2.77	0.70	mg/Kg	1	08/18/20	CPP	SW6010D
Barium	41.3	0.35	mg/Kg	1	08/18/20	CPP	SW6010D
Cadmium	0.84	0.35	mg/Kg	1	08/18/20	CPP	SW6010D
Chromium	11.3	0.35	mg/Kg	1	08/18/20	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	41.4	0.35	mg/Kg	1	08/18/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	08/18/20	CPP	SW6010D
Percent Solid	95		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				08/17/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				08/17/20	R/N	SW3546
Extraction for PCB	Completed				08/18/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				08/17/20	F/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	08/21/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	08/21/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	67		%	5	08/21/20	JRB	50 - 150 %

PCB (Soxhlet SW3540C)

PCB-1016	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	08/19/20	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB-1254	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	81		%	10	08/19/20	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	08/19/20	SC	30 - 150 %
% TCMX	87		%	10	08/19/20	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	08/19/20	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	31	7.0	ug/Kg	10	08/20/20	CG	SW8081B
4,4' -DDE	110	35	ug/Kg	10	08/20/20	CG	SW8081B
4,4' -DDT	95	35	ug/Kg	10	08/20/20	CG	SW8081B
a-BHC	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Alachlor	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	08/19/20	CG	SW8081B
b-BHC	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Chlordane	270	35	ug/Kg	2	08/19/20	CG	SW8081B
d-BHC	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Dieldrin	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Endrin	41	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/19/20	CG	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Heptachlor epoxide	17	7.0	ug/Kg	2	08/19/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	08/19/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	08/19/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	97		%	2	08/19/20	CG	30 - 150 %
% DCBP (Confirmation)	114		%	2	08/19/20	CG	30 - 150 %
% TCMX	79		%	2	08/19/20	CG	30 - 150 %
% TCMX (Confirmation)	88		%	2	08/19/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethane	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,3-Trichloropropane	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromoethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
1,4-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
2-Chlorotoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
2-Hexanone	ND	21	ug/Kg	1	08/18/20	JLI SW8260
2-Isopropyltoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
4-Chlorotoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	08/18/20	JLI SW8260
Acetone	ND	210	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Bromochloromethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Bromoform	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Isopropylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
m&p-Xylene	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	8.5	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	8.5	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
n-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
n-Propylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
o-Xylene	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
sec-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Styrene	ND	4.3	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Tetrachloroethene	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.5	ug/Kg	1	08/18/20	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	550	ug/Kg	50	08/18/20	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
Trichlorotrifluoroethane	ND	8.5	ug/Kg	1	08/18/20	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	08/18/20	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	08/18/20	JLI	70 - 130 %
% Bromofluorobenzene	76		%	1	08/18/20	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	08/18/20	JLI	70 - 130 %
% Toluene-d8	88		%	1	08/18/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	08/18/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	08/18/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	08/18/20	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	08/18/20	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	2400	ug/Kg	10	08/18/20	AW	SW8270D
Acenaphthene	ND	2400	ug/Kg	10	08/18/20	AW	SW8270D
Acenaphthylene	ND	2400	ug/Kg	10	08/18/20	AW	SW8270D
Anthracene	ND	2400	ug/Kg	10	08/18/20	AW	SW8270D
Benz(a)anthracene	1400	1200	ug/Kg	10	08/18/20	AW	SW8270D
Benzo(a)pyrene	2400	1100	ug/Kg	10	08/18/20	AW	SW8270D
Benzo(b)fluoranthene	1500	1200	ug/Kg	10	08/18/20	AW	SW8270D
Benzo(ghi)perylene	2200	1100	ug/Kg	10	08/18/20	AW	SW8270D
Benzo(k)fluoranthene	1800	1100	ug/Kg	10	08/18/20	AW	SW8270D
Chrysene	1400	1200	ug/Kg	10	08/18/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	690	ug/Kg	10	08/18/20	AW	SW8270D
Fluoranthene	ND	2400	ug/Kg	10	08/18/20	AW	SW8270D
Fluorene	ND	2400	ug/Kg	10	08/18/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	1600	1100	ug/Kg	10	08/18/20	AW	SW8270D
Naphthalene	ND	2400	ug/Kg	10	08/18/20	AW	SW8270D
Phenanthrene	ND	2400	ug/Kg	10	08/18/20	AW	SW8270D
Pyrene	2700	2400	ug/Kg	10	08/18/20	AW	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	08/18/20	AW	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	08/18/20	AW	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	08/18/20	AW	30 - 130 %
Field Extraction	Completed				08/17/20		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

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.

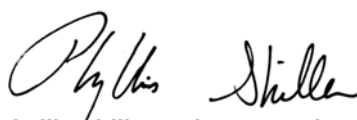
Comments:

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20 10:05
08/17/20 16:23

Time

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54947

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	08/18/20	CPP	SW6010D
Arsenic	2.70	0.74	mg/Kg	1	08/18/20	CPP	SW6010D
Barium	44.1	0.37	mg/Kg	1	08/18/20	CPP	SW6010D
Cadmium	0.63	0.37	mg/Kg	1	08/18/20	CPP	SW6010D
Chromium	15.7	0.37	mg/Kg	1	08/18/20	CPP	SW6010D
Mercury	0.55	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	20.4	0.37	mg/Kg	1	08/18/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	08/18/20	CPP	SW6010D
Percent Solid	97		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				08/17/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				08/17/20	R/N	SW3546
Extraction for PCB	Completed				08/18/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				08/17/20	F/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	08/18/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	08/18/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	83		%	5	08/18/20	JRB	50 - 150 %

PCB (Soxhlet SW3540C)

PCB-1016	ND	330	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1221	ND	330	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1232	ND	330	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1242	ND	330	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1248	ND	330	ug/Kg	10	08/19/20	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB-1254	ND	330	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1260	ND	330	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1262	ND	330	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1268	ND	330	ug/Kg	10	08/19/20	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	96		%	10	08/19/20	SC	30 - 150 %
% DCBP (Confirmation)	93		%	10	08/19/20	SC	30 - 150 %
% TCMX	91		%	10	08/19/20	SC	30 - 150 %
% TCMX (Confirmation)	86		%	10	08/19/20	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
a-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.4	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	ND	34	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endrin	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endrin aldehyde	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endrin ketone	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor epoxide	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Methoxychlor	ND	34	ug/Kg	2	08/20/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	08/20/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	91		%	2	08/20/20	CG	30 - 150 %
% DCBP (Confirmation)	Interference		%	2	08/20/20	CG	30 - 150 %
% TCMX	76		%	2	08/20/20	CG	30 - 150 %
% TCMX (Confirmation)	143		%	2	08/20/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,3-Trichloropropane	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	270	ug/Kg	50	08/18/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
1,4-Dichlorobenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
2-Chlorotoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
2-Hexanone	ND	27	ug/Kg	1	08/18/20	JLI SW8260
2-Isopropyltoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
4-Chlorotoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	08/18/20	JLI SW8260
Acetone	ND	270	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Bromochloromethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Bromoform	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	3.2	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Isopropylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
m&p-Xylene	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	11	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	300	270	ug/Kg	50	08/18/20	JLI SW8260
n-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
n-Propylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
o-Xylene	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
sec-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260
Styrene	ND	5.4	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	270	ug/Kg	50	08/18/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Tetrachloroethene	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	08/18/20	JLI	SW8260
Toluene	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
Total Xylenes	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	540	ug/Kg	50	08/18/20	JLI	SW8260
Trichloroethene	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
Trichlorotrifluoroethane	ND	11	ug/Kg	1	08/18/20	JLI	SW8260
Vinyl chloride	ND	5.4	ug/Kg	1	08/18/20	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	108		%	1	08/18/20	JLI	70 - 130 %
% Bromofluorobenzene	82		%	1	08/18/20	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	08/18/20	JLI	70 - 130 %
% Toluene-d8	95		%	1	08/18/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	08/18/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	08/18/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	08/18/20	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	08/18/20	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	240	ug/Kg	1	08/18/20	AW	SW8270D
Acenaphthene	ND	240	ug/Kg	1	08/18/20	AW	SW8270D
Acenaphthylene	1300	240	ug/Kg	1	08/18/20	AW	SW8270D
Anthracene	680	240	ug/Kg	1	08/18/20	AW	SW8270D
Benz(a)anthracene	1300	240	ug/Kg	1	08/18/20	AW	SW8270D
Benzo(a)pyrene	1800	240	ug/Kg	1	08/18/20	AW	SW8270D
Benzo(b)fluoranthene	1500	240	ug/Kg	1	08/18/20	AW	SW8270D
Benzo(ghi)perylene	1400	240	ug/Kg	1	08/18/20	AW	SW8270D
Benzo(k)fluoranthene	1200	240	ug/Kg	1	08/18/20	AW	SW8270D
Chrysene	1400	240	ug/Kg	1	08/18/20	AW	SW8270D
Dibenz(a,h)anthracene	350	240	ug/Kg	1	08/18/20	AW	SW8270D
Fluoranthene	1900	240	ug/Kg	1	08/18/20	AW	SW8270D
Fluorene	270	240	ug/Kg	1	08/18/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	1300	240	ug/Kg	1	08/18/20	AW	SW8270D
Naphthalene	260	240	ug/Kg	1	08/18/20	AW	SW8270D
Phenanthrene	790	240	ug/Kg	1	08/18/20	AW	SW8270D
Pyrene	2800	240	ug/Kg	1	08/18/20	AW	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	73		%	1	08/18/20	AW	30 - 130 %
% Nitrobenzene-d5	80		%	1	08/18/20	AW	30 - 130 %
% Terphenyl-d14	96		%	1	08/18/20	AW	30 - 130 %
Field Extraction	Completed				08/17/20		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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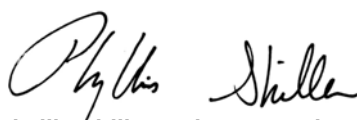
Comments:

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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Phyllis Shiller, Laboratory Director

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

10:15
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54948

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A

Pesticides

4,4' -DDD	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	170	35	ug/Kg	10	08/20/20	CG	SW8081B
4,4' -DDT	210	35	ug/Kg	10	08/20/20	CG	SW8081B
a-BHC	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	120	35	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	20	3.5	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Endrin	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor epoxide	14	7.0	ug/Kg	2	08/20/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	08/20/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	08/20/20	CG	SW8081B

QA/QC Surrogates

% DCBP	90		%	2	08/20/20	CG	30 - 150 %
% DCBP (Confirmation)	121		%	2	08/20/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	85		%	2	08/20/20	CG 30 - 150 %
% TCMX (Confirmation)	86		%	2	08/20/20	CG 30 - 150 %

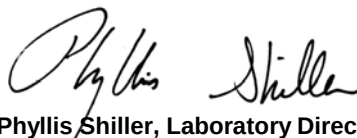
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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:

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20 10:30
08/17/20 16:23

Time

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54950

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	08/18/20	CPP	SW6010D
Arsenic	3.92	0.75	mg/Kg	1	08/18/20	CPP	SW6010D
Barium	100	0.38	mg/Kg	1	08/18/20	CPP	SW6010D
Cadmium	0.91	0.38	mg/Kg	1	08/18/20	CPP	SW6010D
Chromium	19.8	0.38	mg/Kg	1	08/18/20	CPP	SW6010D
Mercury	0.14	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	70.7	0.38	mg/Kg	1	08/18/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	08/18/20	CPP	SW6010D
Percent Solid	95		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/18/20	K/A	SW3546
Total Metals Digest	Completed				08/17/20	F/AG/BF	SW3050B

Pesticides

4,4' -DDD	ND	8.2	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	ND	8.5	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	ND	19	ug/Kg	2	08/20/20	CG	SW8081B
a-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.4	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	70	34	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Endrin	ND	8.0	ug/Kg	2	08/20/20	CG SW8081B
Endrin aldehyde	ND	6.8	ug/Kg	2	08/20/20	CG SW8081B
Endrin ketone	ND	6.8	ug/Kg	2	08/20/20	CG SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/20/20	CG SW8081B
Heptachlor	ND	6.8	ug/Kg	2	08/20/20	CG SW8081B
Heptachlor epoxide	ND	6.8	ug/Kg	2	08/20/20	CG SW8081B
Methoxychlor	ND	34	ug/Kg	2	08/20/20	CG SW8081B
Toxaphene	ND	140	ug/Kg	2	08/20/20	CG SW8081B

QA/QC Surrogates

% DCBP	124		%	2	08/20/20	CG 30 - 150 %
% DCBP (Confirmation)	115		%	2	08/20/20	CG 30 - 150 %
% TCMX	100		%	2	08/20/20	CG 30 - 150 %
% TCMX (Confirmation)	84		%	2	08/20/20	CG 30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthene	ND	240	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthylene	2500	240	ug/Kg	1	08/19/20	WB SW8270D
Anthracene	1700	240	ug/Kg	1	08/19/20	WB SW8270D
Benz(a)anthracene	3600	240	ug/Kg	1	08/19/20	WB SW8270D
Benzo(a)pyrene	3900	240	ug/Kg	1	08/19/20	WB SW8270D
Benzo(b)fluoranthene	3400	240	ug/Kg	1	08/19/20	WB SW8270D
Benzo(ghi)perylene	2500	240	ug/Kg	1	08/19/20	WB SW8270D
Benzo(k)fluoranthene	2600	240	ug/Kg	1	08/19/20	WB SW8270D
Chrysene	3500	240	ug/Kg	1	08/19/20	WB SW8270D
Dibenz(a,h)anthracene	700	240	ug/Kg	1	08/19/20	WB SW8270D
Fluoranthene	5700	240	ug/Kg	1	08/19/20	WB SW8270D
Fluorene	510	240	ug/Kg	1	08/19/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	2500	240	ug/Kg	1	08/19/20	WB SW8270D
Naphthalene	280	240	ug/Kg	1	08/19/20	WB SW8270D
Phenanthrene	3200	240	ug/Kg	1	08/19/20	WB SW8270D
Pyrene	5800	240	ug/Kg	1	08/19/20	WB SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	63		%	1	08/19/20	WB 30 - 130 %
% Nitrobenzene-d5	62		%	1	08/19/20	WB 30 - 130 %
% Terphenyl-d14	68		%	1	08/19/20	WB 30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20 10:35
08/17/20 16:23

Time

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54951

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	08/18/20	CPP	SW6010D
Arsenic	3.53	0.68	mg/Kg	1	08/18/20	CPP	SW6010D
Barium	94.3	0.34	mg/Kg	1	08/18/20	CPP	SW6010D
Cadmium	0.86	0.34	mg/Kg	1	08/18/20	CPP	SW6010D
Chromium	14.4	0.34	mg/Kg	1	08/18/20	CPP	SW6010D
Mercury	0.11	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	129	0.34	mg/Kg	1	08/18/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	08/18/20	CPP	SW6010D
Percent Solid	96		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/18/20	K/A	SW3546
Total Metals Digest	Completed				08/17/20	F/AG/BF	SW3050B

Pesticides

4,4' -DDD	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDE	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDT	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
a-BHC	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Alachlor	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Aldrin	ND	3.4	ug/Kg	2	08/19/20	CG	SW8081B
b-BHC	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Chlordane	42	34	ug/Kg	2	08/19/20	CG	SW8081B
d-BHC	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan I	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan II	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan sulfate	ND	6.8	ug/Kg	2	08/19/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Endrin	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
Endrin aldehyde	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
Endrin ketone	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor epoxide	ND	6.8	ug/Kg	2	08/19/20	CG SW8081B
Methoxychlor	ND	34	ug/Kg	2	08/19/20	CG SW8081B
Toxaphene	ND	140	ug/Kg	2	08/19/20	CG SW8081B
<u>QA/QC Surrogates</u>						
% DCBP	109		%	2	08/19/20	CG 30 - 150 %
% DCBP (Confirmation)	98		%	2	08/19/20	CG 30 - 150 %
% TCMX	92		%	2	08/19/20	CG 30 - 150 %
% TCMX (Confirmation)	77		%	2	08/19/20	CG 30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthene	ND	240	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthylene	1900	240	ug/Kg	1	08/19/20	WB SW8270D
Anthracene	1200	240	ug/Kg	1	08/19/20	WB SW8270D
Benz(a)anthracene	2600	240	ug/Kg	1	08/19/20	WB SW8270D
Benzo(a)pyrene	2900	240	ug/Kg	1	08/19/20	WB SW8270D
Benzo(b)fluoranthene	2300	240	ug/Kg	1	08/19/20	WB SW8270D
Benzo(ghi)perylene	1700	240	ug/Kg	1	08/19/20	WB SW8270D
Benzo(k)fluoranthene	1900	240	ug/Kg	1	08/19/20	WB SW8270D
Chrysene	2600	240	ug/Kg	1	08/19/20	WB SW8270D
Dibenz(a,h)anthracene	530	240	ug/Kg	1	08/19/20	WB SW8270D
Fluoranthene	3800	240	ug/Kg	1	08/19/20	WB SW8270D
Fluorene	380	240	ug/Kg	1	08/19/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	1700	240	ug/Kg	1	08/19/20	WB SW8270D
Naphthalene	ND	240	ug/Kg	1	08/19/20	WB SW8270D
Phenanthrene	1800	240	ug/Kg	1	08/19/20	WB SW8270D
Pyrene	4000	240	ug/Kg	1	08/19/20	WB SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	54		%	1	08/19/20	WB 30 - 130 %
% Nitrobenzene-d5	52		%	1	08/19/20	WB 30 - 130 %
% Terphenyl-d14	58		%	1	08/19/20	WB 30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

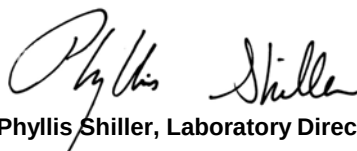
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

10:46
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54952

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A

Pesticides

4,4' -DDD	ND	7.3	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	69	6.8	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	71	6.8	ug/Kg	2	08/20/20	CG	SW8081B
a-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.4	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	70	34	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endrin	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endrin aldehyde	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Endrin ketone	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor	ND	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor epoxide	11	6.8	ug/Kg	2	08/20/20	CG	SW8081B
Methoxychlor	ND	34	ug/Kg	2	08/20/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	08/20/20	CG	SW8081B

QA/QC Surrogates

% DCBP	112		%	2	08/20/20	CG	30 - 150 %
% DCBP (Confirmation)	101		%	2	08/20/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	87		%	2	08/20/20	CG 30 - 150 %
% TCMX (Confirmation)	84		%	2	08/20/20	CG 30 - 150 %

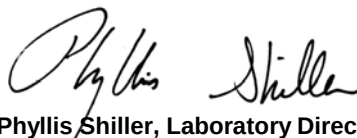
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

11:17
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54954

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Arsenic	4.58	0.76	mg/Kg	1	08/19/20	CPP	SW6010D
Barium	69.3	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Cadmium	1.59	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Chromium	22.8	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Mercury	0.06	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	64.3	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	08/19/20	CPP	SW6010D
Percent Solid	94		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				08/17/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				08/17/20	R/N	SW3546
Extraction for PCB	Completed				08/18/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				08/18/20	F/AG/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	08/18/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	08/18/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	95		%	5	08/18/20	JRB	50 - 150 %

PCB (Soxhlet SW3540C)

PCB-1016	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	08/19/20	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB-1254	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	08/19/20	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	92		%	10	08/19/20	SC	30 - 150 %
% DCBP (Confirmation)	90		%	10	08/19/20	SC	30 - 150 %
% TCMX	92		%	10	08/19/20	SC	30 - 150 %
% TCMX (Confirmation)	92		%	10	08/19/20	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	28	6.9	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	28	6.9	ug/Kg	2	08/20/20	CG	SW8081B
a-BHC	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	ND	35	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endrin	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endrin aldehyde	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Endrin ketone	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor epoxide	ND	6.9	ug/Kg	2	08/20/20	CG	SW8081B
Methoxychlor	ND	35	ug/Kg	2	08/20/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	08/20/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	95		%	2	08/20/20	CG	30 - 150 %
% DCBP (Confirmation)	85		%	2	08/20/20	CG	30 - 150 %
% TCMX	73		%	2	08/20/20	CG	30 - 150 %
% TCMX (Confirmation)	73		%	2	08/20/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
2-Chlorotoluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
2-Hexanone	ND	23	ug/Kg	1	08/18/20	JLI SW8260
2-Isopropyltoluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
4-Chlorotoluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	08/18/20	JLI SW8260
Acetone	ND	230	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromoform	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	2.7	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Isopropylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
m&p-Xylene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	9.1	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	9.1	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
n-Butylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
n-Propylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
o-Xylene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
sec-Butylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Styrene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Tetrachloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	9.1	ug/Kg	1	08/18/20	JLI SW8260
Toluene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Total Xylenes	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	9.1	ug/Kg	1	08/18/20	JLI SW8260
Trichloroethene	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	9.1	ug/Kg	1	08/18/20	JLI SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	08/18/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	98		%	1	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene	91		%	1	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane	98		%	1	08/18/20	JLI 70 - 130 %
% Toluene-d8	98		%	1	08/18/20	JLI 70 - 130 %
Client MS/MSD	Completed				08/21/20	

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	1	08/18/20	AW SW8270D
Acenaphthene	ND	240	ug/Kg	1	08/18/20	AW SW8270D
Acenaphthylene	ND	240	ug/Kg	1	08/18/20	AW SW8270D
Anthracene	ND	240	ug/Kg	1	08/18/20	AW SW8270D
Benz(a)anthracene	400	240	ug/Kg	1	08/18/20	AW SW8270D
Benzo(a)pyrene	480	240	ug/Kg	1	08/18/20	AW SW8270D
Benzo(b)fluoranthene	370	240	ug/Kg	1	08/18/20	AW SW8270D
Benzo(ghi)perylene	420	240	ug/Kg	1	08/18/20	AW SW8270D
Benzo(k)fluoranthene	440	240	ug/Kg	1	08/18/20	AW SW8270D
Chrysene	400	240	ug/Kg	1	08/18/20	AW SW8270D
Dibenz(a,h)anthracene	290	240	ug/Kg	1	08/18/20	AW SW8270D
Fluoranthene	750	240	ug/Kg	1	08/18/20	AW SW8270D
Fluorene	ND	240	ug/Kg	1	08/18/20	AW SW8270D
Indeno(1,2,3-cd)pyrene	510	240	ug/Kg	1	08/18/20	AW SW8270D
Naphthalene	ND	240	ug/Kg	1	08/18/20	AW SW8270D
Phenanthrene	440	240	ug/Kg	1	08/18/20	AW SW8270D
Pyrene	710	240	ug/Kg	1	08/18/20	AW SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	70		%	1	08/18/20	AW 30 - 130 %
% Nitrobenzene-d5	66		%	1	08/18/20	AW 30 - 130 %
% Terphenyl-d14	88		%	1	08/18/20	AW 30 - 130 %
Field Extraction	Completed				08/17/20	SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

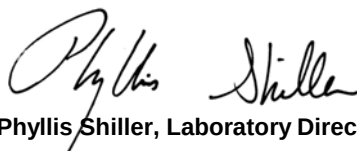
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

11:37
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54955

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A

Pesticides

4,4' -DDD	ND	20	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	22	6.7	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	15	6.7	ug/Kg	2	08/20/20	CG	SW8081B
a-BHC	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	15	3.4	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	100	34	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	39	3.4	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Endrin	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Endrin aldehyde	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Endrin ketone	ND	6.7	ug/Kg	2	08/20/20	CG	SW8081B
g-BHC	ND	1.3	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor	12	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor epoxide	9.4	6.7	ug/Kg	2	08/20/20	CG	SW8081B
Methoxychlor	ND	34	ug/Kg	2	08/20/20	CG	SW8081B
Toxaphene	ND	130	ug/Kg	2	08/20/20	CG	SW8081B

QA/QC Surrogates

% DCBP	90		%	2	08/20/20	CG	30 - 150 %
% DCBP (Confirmation)	78		%	2	08/20/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	91		%	2	08/20/20	CG 30 - 150 %
% TCMX (Confirmation)	90		%	2	08/20/20	CG 30 - 150 %

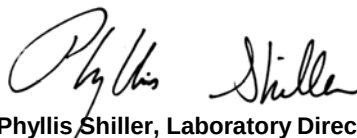
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

12:27
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54957

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	08/19/20	CPP	SW6010D
Arsenic	3.18	0.80	mg/Kg	1	08/19/20	CPP	SW6010D
Barium	164	0.40	mg/Kg	1	08/19/20	CPP	SW6010D
Cadmium	1.48	0.40	mg/Kg	1	08/19/20	CPP	SW6010D
Chromium	25.5	0.40	mg/Kg	1	08/19/20	CPP	SW6010D
Mercury	0.34	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	164	0.40	mg/Kg	1	08/19/20	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	08/19/20	CPP	SW6010D
Percent Solid	87		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/18/20	K/A	SW3546
Total Metals Digest	Completed				08/18/20	F/AG/AG	SW3050B

Pesticides

4,4' -DDD	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
a-BHC	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.8	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Endrin	ND	7.6	ug/Kg	2	08/20/20	CG SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	08/20/20	CG SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	08/20/20	CG SW8081B
g-BHC	ND	1.5	ug/Kg	2	08/20/20	CG SW8081B
Heptachlor	ND	7.6	ug/Kg	2	08/20/20	CG SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	08/20/20	CG SW8081B
Methoxychlor	ND	38	ug/Kg	2	08/20/20	CG SW8081B
Toxaphene	ND	150	ug/Kg	2	08/20/20	CG SW8081B

QA/QC Surrogates

% DCBP	115		%	2	08/20/20	CG 30 - 150 %
% DCBP (Confirmation)	98		%	2	08/20/20	CG 30 - 150 %
% TCMX	88		%	2	08/20/20	CG 30 - 150 %
% TCMX (Confirmation)	85		%	2	08/20/20	CG 30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthylene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Anthracene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Chrysene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Fluoranthene	290	260	ug/Kg	1	08/19/20	WB SW8270D
Fluorene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Naphthalene	360	260	ug/Kg	1	08/19/20	WB SW8270D
Phenanthrene	ND	260	ug/Kg	1	08/19/20	WB SW8270D
Pyrene	300	260	ug/Kg	1	08/19/20	WB SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	68		%	1	08/19/20	WB 30 - 130 %
% Nitrobenzene-d5	63		%	1	08/19/20	WB 30 - 130 %
% Terphenyl-d14	70		%	1	08/19/20	WB 30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

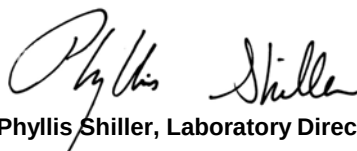
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

12:30
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54958

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Arsenic	4.14	0.76	mg/Kg	1	08/19/20	CPP	SW6010D
Barium	100	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Cadmium	1.03	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Chromium	18.5	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	19.4	0.38	mg/Kg	1	08/19/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	08/19/20	CPP	SW6010D
Percent Solid	86		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/18/20	K/A	SW3546
Total Metals Digest	Completed				08/18/20	F/AG/AG	SW3050B

Pesticides

4,4' -DDD	ND	8.3	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDE	ND	8.7	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDT	ND	7.7	ug/Kg	2	08/19/20	CG	SW8081B
a-BHC	ND	7.7	ug/Kg	2	08/19/20	CG	SW8081B
Alachlor	ND	7.7	ug/Kg	2	08/19/20	CG	SW8081B
Aldrin	ND	3.8	ug/Kg	2	08/19/20	CG	SW8081B
b-BHC	ND	7.7	ug/Kg	2	08/19/20	CG	SW8081B
Chlordane	ND	38	ug/Kg	2	08/19/20	CG	SW8081B
d-BHC	ND	7.7	ug/Kg	2	08/19/20	CG	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	08/19/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Endrin	ND	7.7	ug/Kg	2	08/19/20	CG SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	08/19/20	CG SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	08/19/20	CG SW8081B
g-BHC	ND	1.5	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor	ND	7.7	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	08/19/20	CG SW8081B
Methoxychlor	ND	38	ug/Kg	2	08/19/20	CG SW8081B
Toxaphene	ND	150	ug/Kg	2	08/19/20	CG SW8081B
<u>QA/QC Surrogates</u>						
% DCBP	112		%	2	08/19/20	CG 30 - 150 %
% DCBP (Confirmation)	101		%	2	08/19/20	CG 30 - 150 %
% TCMX	89		%	2	08/19/20	CG 30 - 150 %
% TCMX (Confirmation)	89		%	2	08/19/20	CG 30 - 150 %
<u>Polynuclear Aromatic HC</u>						
2-Methylnaphthalene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthylene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Anthracene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Chrysene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Fluoranthene	380	270	ug/Kg	1	08/19/20	WB SW8270D
Fluorene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	08/19/20	WB SW8270D
Naphthalene	290	270	ug/Kg	1	08/19/20	WB SW8270D
Phenanthrene	280	270	ug/Kg	1	08/19/20	WB SW8270D
Pyrene	350	270	ug/Kg	1	08/19/20	WB SW8270D
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	67		%	1	08/19/20	WB 30 - 130 %
% Nitrobenzene-d5	62		%	1	08/19/20	WB 30 - 130 %
% Terphenyl-d14	73		%	1	08/19/20	WB 30 - 130 %

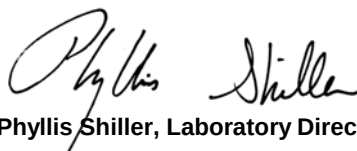
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

13:30
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54959

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	08/19/20	CPP	SW6010D
Arsenic	4.01	0.75	mg/Kg	1	08/19/20	CPP	SW6010D
Barium	62.3	0.37	mg/Kg	1	08/19/20	CPP	SW6010D
Cadmium	1.50	0.37	mg/Kg	1	08/19/20	CPP	SW6010D
Chromium	23.2	0.37	mg/Kg	1	08/19/20	CPP	SW6010D
Mercury	0.12	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	28.6	0.37	mg/Kg	1	08/19/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	08/19/20	CPP	SW6010D
Percent Solid	94		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/18/20	K/A	SW3546
Total Metals Digest	Completed				08/18/20	F/AG/AG	SW3050B

Pesticides

4,4' -DDD	ND	8.5	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDE	83	35	ug/Kg	10	08/20/20	CG	SW8081B
4,4' -DDT	46	7.1	ug/Kg	2	08/19/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	08/19/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	08/19/20	CG	SW8081B
Aldrin	ND	3.5	ug/Kg	2	08/19/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	08/19/20	CG	SW8081B
Chlordane	64	35	ug/Kg	2	08/19/20	CG	SW8081B
d-BHC	ND	7.1	ug/Kg	2	08/19/20	CG	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	08/19/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Endrin	ND	7.1	ug/Kg	2	08/19/20	CG SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	08/19/20	CG SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	08/19/20	CG SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor	ND	7.1	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	08/19/20	CG SW8081B
Methoxychlor	ND	35	ug/Kg	2	08/19/20	CG SW8081B
Toxaphene	ND	140	ug/Kg	2	08/19/20	CG SW8081B
<u>QA/QC Surrogates</u>						
% DCBP	114		%	2	08/19/20	CG 30 - 150 %
% DCBP (Confirmation)	102		%	2	08/19/20	CG 30 - 150 %
% TCMX	98		%	2	08/19/20	CG 30 - 150 %
% TCMX (Confirmation)	93		%	2	08/19/20	CG 30 - 150 %
<u>Polynuclear Aromatic HC</u>						
2-Methylnaphthalene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthylene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Anthracene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Chrysene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Fluoranthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Fluorene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Naphthalene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Phenanthrene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Pyrene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	65		%	1	08/19/20	WB 30 - 130 %
% Nitrobenzene-d5	61		%	1	08/19/20	WB 30 - 130 %
% Terphenyl-d14	71		%	1	08/19/20	WB 30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

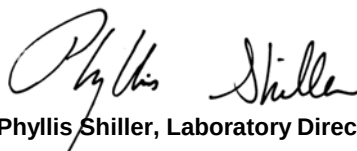
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20 13:35
08/17/20 16:23

Time

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54960

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	08/19/20	CPP	SW6010D
Arsenic	4.42	0.72	mg/Kg	1	08/19/20	CPP	SW6010D
Barium	68.0	0.36	mg/Kg	1	08/19/20	CPP	SW6010D
Cadmium	1.55	0.36	mg/Kg	1	08/19/20	CPP	SW6010D
Chromium	26.1	0.36	mg/Kg	1	08/19/20	CPP	SW6010D
Mercury	0.12	0.03	mg/Kg	2	08/18/20	RS	SW7471B
Lead	35.0	0.36	mg/Kg	1	08/19/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	08/19/20	CPP	SW6010D
Percent Solid	92		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Soil Extraction for SVOA PAH	Completed				08/18/20	K/A	SW3546
Total Metals Digest	Completed				08/18/20	F/AG/AG	SW3050B

Pesticides

4,4' -DDD	ND	7.2	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDE	55	7.2	ug/Kg	2	08/19/20	CG	SW8081B
4,4' -DDT	45	7.2	ug/Kg	2	08/19/20	CG	SW8081B
a-BHC	ND	7.2	ug/Kg	2	08/19/20	CG	SW8081B
Alachlor	ND	7.2	ug/Kg	2	08/19/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	08/19/20	CG	SW8081B
b-BHC	ND	7.2	ug/Kg	2	08/19/20	CG	SW8081B
Chlordane	43	36	ug/Kg	2	08/19/20	CG	SW8081B
d-BHC	ND	7.2	ug/Kg	2	08/19/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	08/19/20	CG	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	08/19/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Endrin	ND	7.2	ug/Kg	2	08/19/20	CG SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	08/19/20	CG SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	08/19/20	CG SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor	ND	7.2	ug/Kg	2	08/19/20	CG SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	08/19/20	CG SW8081B
Methoxychlor	ND	36	ug/Kg	2	08/19/20	CG SW8081B
Toxaphene	ND	140	ug/Kg	2	08/19/20	CG SW8081B
<u>QA/QC Surrogates</u>						
% DCBP	96		%	2	08/19/20	CG 30 - 150 %
% DCBP (Confirmation)	104		%	2	08/19/20	CG 30 - 150 %
% TCMX	72		%	2	08/19/20	CG 30 - 150 %
% TCMX (Confirmation)	90		%	2	08/19/20	CG 30 - 150 %
<u>Polynuclear Aromatic HC</u>						
2-Methylnaphthalene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthylene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Anthracene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Chrysene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Fluoranthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Fluorene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Naphthalene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Phenanthrene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Pyrene	260	250	ug/Kg	1	08/19/20	WB SW8270D
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	62		%	1	08/19/20	WB 30 - 130 %
% Nitrobenzene-d5	58		%	1	08/19/20	WB 30 - 130 %
% Terphenyl-d14	70		%	1	08/19/20	WB 30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

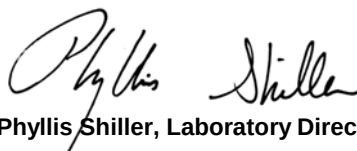
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

13:53
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54961

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Arsenic	4.55	0.71	mg/Kg	1	08/19/20	CPP	SW6010D
Barium	63.3	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Cadmium	1.38	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Chromium	25.4	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Mercury	0.17	0.07	mg/Kg	5	08/18/20	RS	SW7471B
Lead	29.7	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	08/19/20	CPP	SW6010D
Percent Solid	93		%		08/17/20	JD	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/17/20	K/EN	SW3545A
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				08/17/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				08/18/20	K/A	SW3546
Extraction for PCB	Completed				08/18/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				08/18/20	F/AG/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	08/18/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/18/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	65		%	1	08/18/20	JRB	50 - 150 %

PCB (Soxhlet SW3540C)

PCB-1016	ND	360	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1248	ND	360	ug/Kg	10	08/19/20	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB-1254	ND	360	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	08/19/20	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	53		%	10	08/19/20	SC	30 - 150 %
% DCBP (Confirmation)	46		%	10	08/19/20	SC	30 - 150 %
% TCMX	47		%	10	08/19/20	SC	30 - 150 %
% TCMX (Confirmation)	47		%	10	08/19/20	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	12	7.1	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	82	36	ug/Kg	10	08/20/20	CG	SW8081B
4,4' -DDT	51	36	ug/Kg	10	08/20/20	CG	SW8081B
a-BHC	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.6	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	76	36	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Endrin	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
g-BHC	ND	1.4	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	08/20/20	CG	SW8081B
Methoxychlor	ND	36	ug/Kg	2	08/20/20	CG	SW8081B
Toxaphene	ND	140	ug/Kg	2	08/20/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	82		%	2	08/20/20	CG	30 - 150 %
% DCBP (Confirmation)	69		%	2	08/20/20	CG	30 - 150 %
% TCMX	69		%	2	08/20/20	CG	30 - 150 %
% TCMX (Confirmation)	68		%	2	08/20/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1,1-Trichloroethane	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2-Trichloroethane	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethane	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethene	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloropropene	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichloropropane	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	7.4	ug/Kg	1	08/18/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
1,2-Dibromo-3-chloropropane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichlorobenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloroethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloropropane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
1,3-Dichlorobenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
1,3-Dichloropropane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
1,4-Dichlorobenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
2,2-Dichloropropane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
2-Chlorotoluene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
2-Hexanone	ND	37	ug/Kg	1	08/18/20	JLI SW8260
2-Isopropyltoluene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
4-Chlorotoluene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
4-Methyl-2-pentanone	ND	37	ug/Kg	1	08/18/20	JLI SW8260
Acetone	ND	370	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Bromochloromethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Bromoform	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Carbon tetrachloride	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	4.4	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Isopropylbenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
m&p-Xylene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	44	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	15	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
n-Butylbenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
n-Propylbenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
o-Xylene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
sec-Butylbenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Styrene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Tetrachloroethene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	1	08/18/20	JLI SW8260
Toluene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Total Xylenes	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	1	08/18/20	JLI SW8260
Trichloroethene	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	15	ug/Kg	1	08/18/20	JLI SW8260
Vinyl chloride	ND	7.4	ug/Kg	1	08/18/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	97		%	1	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene	90		%	1	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane	97		%	1	08/18/20	JLI 70 - 130 %
% Toluene-d8	98		%	1	08/18/20	JLI 70 - 130 %
<u>Polynuclear Aromatic HC</u>						
2-Methylnaphthalene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthylene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Anthracene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Benz(a)anthracene	280	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(a)pyrene	380	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(b)fluoranthene	370	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(ghi)perylene	290	250	ug/Kg	1	08/19/20	WB SW8270D
Benzo(k)fluoranthene	270	250	ug/Kg	1	08/19/20	WB SW8270D
Chrysene	330	250	ug/Kg	1	08/19/20	WB SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Fluoranthene	400	250	ug/Kg	1	08/19/20	WB SW8270D
Fluorene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	300	250	ug/Kg	1	08/19/20	WB SW8270D
Naphthalene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Phenanthrene	ND	250	ug/Kg	1	08/19/20	WB SW8270D
Pyrene	430	250	ug/Kg	1	08/19/20	WB SW8270D
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	65		%	1	08/19/20	WB 30 - 130 %
% Nitrobenzene-d5	61		%	1	08/19/20	WB 30 - 130 %
% Terphenyl-d14	71		%	1	08/19/20	WB 30 - 130 %
Field Extraction	Completed				08/17/20	SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

14:15
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54962

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Arsenic	4.18	0.71	mg/Kg	1	08/19/20	CPP	SW6010D
Barium	157	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Cadmium	2.32	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Chromium	17.2	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Mercury	0.21	0.13	mg/Kg	10	08/18/20	RS	SW7471B
Lead	291	0.35	mg/Kg	1	08/19/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	08/19/20	CPP	SW6010D
Percent Solid	97		%		08/17/20	JD	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	08/17/20	MB	SW846-Corr
pH at 25C - Soil	7.52	1.00	pH Units	1	08/17/20 20:56	MB	SW846 9045
Reactivity Cyanide	< 5	5	mg/Kg	1	08/19/20	DJ/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	08/19/20	DJ/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	08/19/20	DJ/GD	SW846-React
Soil Extraction for SVOA	Completed				08/17/20	L/N	SW3546
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				08/17/20	G/A	SW3546
Paint Filter Test	Passed		PASS/FAIL		08/17/20	F	SW9095B
Extraction for PCB	Completed				08/18/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				08/18/20	F/AG/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	520	250	mg/Kg	5	08/21/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	08/21/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	111		%	5	08/21/20	JRB	50 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
<u>PCB (Soxhlet SW3540C)</u>						
PCB-1016	ND	340	ug/Kg	10	08/19/20	SC SW8082A
PCB-1221	ND	340	ug/Kg	10	08/19/20	SC SW8082A
PCB-1232	ND	340	ug/Kg	10	08/19/20	SC SW8082A
PCB-1242	ND	340	ug/Kg	10	08/19/20	SC SW8082A
PCB-1248	ND	340	ug/Kg	10	08/19/20	SC SW8082A
PCB-1254	ND	340	ug/Kg	10	08/19/20	SC SW8082A
PCB-1260	ND	340	ug/Kg	10	08/19/20	SC SW8082A
PCB-1262	ND	340	ug/Kg	10	08/19/20	SC SW8082A
PCB-1268	ND	340	ug/Kg	10	08/19/20	SC SW8082A
<u>QA/QC Surrogates</u>						
% DCBP	103		%	10	08/19/20	SC 30 - 150 %
% DCBP (Confirmation)	100		%	10	08/19/20	SC 30 - 150 %
% TCMX	72		%	10	08/19/20	SC 30 - 150 %
% TCMX (Confirmation)	71		%	10	08/19/20	SC 30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,1,1-Trichloroethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	1	08/18/20	JLI SW8260
1,1,2-Trichloroethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloroethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloroethene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloropropene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,2,3-Trichlorobenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
1,2,3-Trichloropropane	ND	390	ug/Kg	50	08/18/20	JLI SW8260
1,2,4-Trichlorobenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
1,2,4-Trimethylbenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromoethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichlorobenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
1,2-Dichloroethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloropropane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichlorobenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichloropropane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
1,4-Dichlorobenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
2,2-Dichloropropane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
2-Chlorotoluene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
2-Hexanone	ND	33	ug/Kg	1	08/18/20	JLI SW8260
2-Isopropyltoluene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
4-Chlorotoluene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
4-Methyl-2-pentanone	ND	33	ug/Kg	1	08/18/20	JLI SW8260
Acetone	ND	330	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
Bromochloromethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Bromoform	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Carbon tetrachloride	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	4.0	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
Isopropylbenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
m&p-Xylene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	40	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	13	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
n-Butylbenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
n-Propylbenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
o-Xylene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
sec-Butylbenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
Styrene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	390	ug/Kg	50	08/18/20	JLI SW8260
Tetrachloroethene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	08/18/20	JLI SW8260
Toluene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Total Xylenes	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	780	ug/Kg	50	08/18/20	JLI SW8260
Trichloroethene	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	13	ug/Kg	1	08/18/20	JLI SW8260
Vinyl chloride	ND	6.6	ug/Kg	1	08/18/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	94		%	1	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene	79		%	1	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane	103		%	1	08/18/20	JLI 70 - 130 %
% Toluene-d8	92		%	1	08/18/20	JLI 70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	08/18/20	JLI 70 - 130 %
% Toluene-d8 (50x)	100		%	50	08/18/20	JLI 70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Semivolatiles						
1,2,4,5-Tetrachlorobenzene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
1,2,4-Trichlorobenzene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
1,2-Dichlorobenzene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
1,2-Diphenylhydrazine	ND	340	ug/Kg	1	08/18/20	WB SW8270D
1,3-Dichlorobenzene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
1,4-Dichlorobenzene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2,4,5-Trichlorophenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2,4,6-Trichlorophenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2,4-Dichlorophenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2,4-Dimethylphenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2,4-Dinitrophenol	ND	340	ug/Kg	1	08/18/20	WB SW8270D
2,4-Dinitrotoluene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2,6-Dinitrotoluene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2-Chloronaphthalene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2-Chlorophenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2-Methylnaphthalene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2-Methylphenol (o-cresol)	ND	240	ug/Kg	1	08/18/20	WB SW8270D
2-Nitroaniline	ND	340	ug/Kg	1	08/18/20	WB SW8270D
2-Nitrophenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
3&4-Methylphenol (m&p-cresol)	ND	340	ug/Kg	1	08/18/20	WB SW8270D
3,3'-Dichlorobenzidine	ND	240	ug/Kg	1	08/18/20	WB SW8270D
3-Nitroaniline	ND	340	ug/Kg	1	08/18/20	WB SW8270D
4,6-Dinitro-2-methylphenol	ND	340	ug/Kg	1	08/18/20	WB SW8270D
4-Bromophenyl phenyl ether	ND	340	ug/Kg	1	08/18/20	WB SW8270D
4-Chloro-3-methylphenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
4-Chloroaniline	ND	240	ug/Kg	1	08/18/20	WB SW8270D
4-Chlorophenyl phenyl ether	ND	240	ug/Kg	1	08/18/20	WB SW8270D
4-Nitroaniline	ND	540	ug/Kg	1	08/18/20	WB SW8270D
4-Nitrophenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Acenaphthene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Acenaphthylene	580	240	ug/Kg	1	08/18/20	WB SW8270D
Acetophenone	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Aniline	ND	340	ug/Kg	1	08/18/20	WB SW8270D
Anthracene	450	240	ug/Kg	1	08/18/20	WB SW8270D
Benz(a)anthracene	1400	240	ug/Kg	1	08/18/20	WB SW8270D
Benzidine	ND	200	ug/Kg	1	08/18/20	WB SW8270D
Benzo(a)pyrene	2500	240	ug/Kg	1	08/18/20	WB SW8270D
Benzo(b)fluoranthene	2000	240	ug/Kg	1	08/18/20	WB SW8270D
Benzo(ghi)perylene	5500	240	ug/Kg	1	08/18/20	WB SW8270D
Benzo(k)fluoranthene	860	240	ug/Kg	1	08/18/20	WB SW8270D
Benzoic acid	ND	680	ug/Kg	1	08/18/20	WB SW8270D
Benzyl butyl phthalate	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Bis(2-chloroethoxy)methane	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Bis(2-chloroethyl)ether	ND	340	ug/Kg	1	08/18/20	WB SW8270D
Bis(2-chloroisopropyl)ether	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Bis(2-ethylhexyl)phthalate	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Carbazole	ND	340	ug/Kg	1	08/18/20	WB SW8270D
Chrysene	1800	240	ug/Kg	1	08/18/20	WB SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Dibenz(a,h)anthracene	410	240	ug/Kg	1	08/18/20	WB SW8270D
Dibenzofuran	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Diethyl phthalate	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Dimethylphthalate	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Di-n-butylphthalate	ND	340	ug/Kg	1	08/18/20	WB SW8270D
Di-n-octylphthalate	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Fluoranthene	2900	240	ug/Kg	1	08/18/20	WB SW8270D
Fluorene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Hexachlorobenzene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Hexachlorobutadiene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Hexachlorocyclopentadiene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Hexachloroethane	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	1800	240	ug/Kg	1	08/18/20	WB SW8270D
Isophorone	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Naphthalene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Nitrobenzene	ND	240	ug/Kg	1	08/18/20	WB SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	08/18/20	WB SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	08/18/20	WB SW8270D
N-Nitrosodiphenylamine	ND	340	ug/Kg	1	08/18/20	WB SW8270D
Pentachloronitrobenzene	ND	340	ug/Kg	1	08/18/20	WB SW8270D
Pentachlorophenol	500	340	ug/Kg	1	08/18/20	WB SW8270D
Phenanthrene	710	240	ug/Kg	1	08/18/20	WB SW8270D
Phenol	ND	240	ug/Kg	1	08/18/20	WB SW8270D
Pyrene	3000	240	ug/Kg	1	08/18/20	WB SW8270D
Pyridine	ND	340	ug/Kg	1	08/18/20	WB SW8270D
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	82		%	1	08/18/20	WB 30 - 130 %
% 2-Fluorobiphenyl	63		%	1	08/18/20	WB 30 - 130 %
% 2-Fluorophenol	88		%	1	08/18/20	WB 30 - 130 %
% Nitrobenzene-d5	114		%	1	08/18/20	WB 30 - 130 %
% Phenol-d5	120		%	1	08/18/20	WB 30 - 130 %
% Terphenyl-d14	122		%	1	08/18/20	WB 30 - 130 %
Field Extraction	Completed				08/17/20	SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

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.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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 C22 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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

14:20
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54963

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.54	0.36	mg/Kg	1	08/19/20	CPP	SW6010D
Arsenic	24.0	0.71	mg/Kg	1	08/19/20	TH	SW6010D
Barium	175	0.36	mg/Kg	1	08/19/20	TH	SW6010D
Cadmium	0.83	0.36	mg/Kg	1	08/19/20	TH	SW6010D
Chromium	9.52	0.36	mg/Kg	1	08/19/20	TH	SW6010D
Mercury	12.4	1.3	mg/Kg	100	08/18/20	RS	SW7471B
Lead	36.5	0.36	mg/Kg	1	08/19/20	TH	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	08/19/20	TH	SW6010D
Percent Solid	99		%		08/17/20	JD	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	08/17/20	MB	SW846-Corr
pH at 25C - Soil	4.75	1.00	pH Units	1	08/17/20 20:56	MB	SW846 9045
Reactivity Cyanide	< 5	5	mg/Kg	1	08/19/20	DJ/GD	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	08/19/20	DJ/GD	SW846 CH7
Reactivity	Negative		Pos/Neg	1	08/19/20	DJ/GD	SW846-React
Soil Extraction for SVOA	Completed				08/17/20	L/N	SW3546
Mercury Digestion	Completed				08/18/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				08/17/20	G/A	SW3546
Paint Filter Test	Passed		PASS/FAIL		08/17/20	F	SW9095B
Extraction for PCB	Completed				08/18/20	HH/KL/HB	SW3540C
Total Metals Digest	Completed				08/18/20	F/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	50	mg/Kg	1	08/18/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/18/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	75		%	1	08/18/20	JRB	50 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
<u>PCB (Soxhlet SW3540C)</u>						
PCB-1016	ND	330	ug/Kg	10	08/20/20	SC SW8082A
PCB-1221	ND	330	ug/Kg	10	08/20/20	SC SW8082A
PCB-1232	ND	330	ug/Kg	10	08/20/20	SC SW8082A
PCB-1242	ND	330	ug/Kg	10	08/20/20	SC SW8082A
PCB-1248	ND	330	ug/Kg	10	08/20/20	SC SW8082A
PCB-1254	ND	330	ug/Kg	10	08/20/20	SC SW8082A
PCB-1260	ND	330	ug/Kg	10	08/20/20	SC SW8082A
PCB-1262	ND	330	ug/Kg	10	08/20/20	SC SW8082A
PCB-1268	ND	330	ug/Kg	10	08/20/20	SC SW8082A
<u>QA/QC Surrogates</u>						
% DCBP	99		%	10	08/20/20	SC 30 - 150 %
% DCBP (Confirmation)	84		%	10	08/20/20	SC 30 - 150 %
% TCMX	60		%	10	08/20/20	SC 30 - 150 %
% TCMX (Confirmation)	58		%	10	08/20/20	SC 30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,1,1-Trichloroethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,1,2,2-Tetrachloroethane	ND	4.1	ug/Kg	1	08/18/20	JLI SW8260
1,1,2-Trichloroethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloroethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloroethene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,1-Dichloropropene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,2,3-Trichlorobenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
1,2,3-Trichloropropane	ND	460	ug/Kg	50	08/18/20	JLI SW8260
1,2,4-Trichlorobenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
1,2,4-Trimethylbenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
1,2-Dibromo-3-chloropropane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dibromoethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichlorobenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
1,2-Dichloroethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,2-Dichloropropane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichlorobenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
1,3-Dichloropropane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
1,4-Dichlorobenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
2,2-Dichloropropane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
2-Chlorotoluene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
2-Hexanone	ND	34	ug/Kg	1	08/18/20	JLI SW8260
2-Isopropyltoluene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
4-Chlorotoluene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
4-Methyl-2-pentanone	ND	34	ug/Kg	1	08/18/20	JLI SW8260
Acetone	ND	340	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
Bromochloromethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Bromoform	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Carbon tetrachloride	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	4.1	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
Isopropylbenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
m&p-Xylene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	41	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	14	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
n-Butylbenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
n-Propylbenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
o-Xylene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
sec-Butylbenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
Styrene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	460	ug/Kg	50	08/18/20	JLI SW8260
Tetrachloroethene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	08/18/20	JLI SW8260
Toluene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Total Xylenes	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	920	ug/Kg	50	08/18/20	JLI SW8260
Trichloroethene	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	14	ug/Kg	1	08/18/20	JLI SW8260
Vinyl chloride	ND	6.8	ug/Kg	1	08/18/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	112		%	1	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene	76		%	1	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane	103		%	1	08/18/20	JLI 70 - 130 %
% Toluene-d8	96		%	1	08/18/20	JLI 70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	08/18/20	JLI 70 - 130 %
% Toluene-d8 (50x)	98		%	50	08/18/20	JLI 70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
<u>Semivolatiles</u>						
1,2,4,5-Tetrachlorobenzene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
1,2,4-Trichlorobenzene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
1,2-Dichlorobenzene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
1,2-Diphenylhydrazine	ND	330	ug/Kg	1	08/18/20	WB SW8270D
1,3-Dichlorobenzene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
1,4-Dichlorobenzene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2,4,5-Trichlorophenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2,4,6-Trichlorophenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2,4-Dichlorophenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2,4-Dimethylphenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2,4-Dinitrophenol	ND	330	ug/Kg	1	08/18/20	WB SW8270D
2,4-Dinitrotoluene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2,6-Dinitrotoluene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2-Chloronaphthalene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2-Chlorophenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2-Methylnaphthalene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2-Methylphenol (o-cresol)	ND	230	ug/Kg	1	08/18/20	WB SW8270D
2-Nitroaniline	ND	330	ug/Kg	1	08/18/20	WB SW8270D
2-Nitrophenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
3&4-Methylphenol (m&p-cresol)	ND	330	ug/Kg	1	08/18/20	WB SW8270D
3,3'-Dichlorobenzidine	ND	230	ug/Kg	1	08/18/20	WB SW8270D
3-Nitroaniline	ND	330	ug/Kg	1	08/18/20	WB SW8270D
4,6-Dinitro-2-methylphenol	ND	330	ug/Kg	1	08/18/20	WB SW8270D
4-Bromophenyl phenyl ether	ND	330	ug/Kg	1	08/18/20	WB SW8270D
4-Chloro-3-methylphenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
4-Chloroaniline	ND	230	ug/Kg	1	08/18/20	WB SW8270D
4-Chlorophenyl phenyl ether	ND	230	ug/Kg	1	08/18/20	WB SW8270D
4-Nitroaniline	ND	530	ug/Kg	1	08/18/20	WB SW8270D
4-Nitrophenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Acenaphthene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Acenaphthylene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Acetophenone	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Aniline	ND	330	ug/Kg	1	08/18/20	WB SW8270D
Anthracene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Benz(a)anthracene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Benzidine	ND	200	ug/Kg	1	08/18/20	WB SW8270D
Benzo(a)pyrene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Benzo(b)fluoranthene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Benzo(ghi)perylene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Benzo(k)fluoranthene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Benzoic acid	ND	670	ug/Kg	1	08/18/20	WB SW8270D
Benzyl butyl phthalate	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Bis(2-chloroethoxy)methane	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Bis(2-chloroethyl)ether	ND	330	ug/Kg	1	08/18/20	WB SW8270D
Bis(2-chloroisopropyl)ether	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Bis(2-ethylhexyl)phthalate	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Carbazole	ND	330	ug/Kg	1	08/18/20	WB SW8270D
Chrysene	ND	230	ug/Kg	1	08/18/20	WB SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Dibenz(a,h)anthracene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Dibenzofuran	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Diethyl phthalate	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Dimethylphthalate	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Di-n-butylphthalate	ND	330	ug/Kg	1	08/18/20	WB SW8270D
Di-n-octylphthalate	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Fluoranthene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Fluorene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Hexachlorobenzene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Hexachlorobutadiene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Hexachlorocyclopentadiene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Hexachloroethane	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Isophorone	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Naphthalene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Nitrobenzene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
N-Nitrosodimethylamine	ND	200	ug/Kg	1	08/18/20	WB SW8270D
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	08/18/20	WB SW8270D
N-Nitrosodiphenylamine	ND	330	ug/Kg	1	08/18/20	WB SW8270D
Pentachloronitrobenzene	ND	330	ug/Kg	1	08/18/20	WB SW8270D
Pentachlorophenol	ND	330	ug/Kg	1	08/18/20	WB SW8270D
Phenanthrene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Phenol	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Pyrene	ND	230	ug/Kg	1	08/18/20	WB SW8270D
Pyridine	ND	330	ug/Kg	1	08/18/20	WB SW8270D
<u>QA/QC Surrogates</u>						
% 2,4,6-Tribromophenol	93		%	1	08/18/20	WB 30 - 130 %
% 2-Fluorobiphenyl	83		%	1	08/18/20	WB 30 - 130 %
% 2-Fluorophenol	74		%	1	08/18/20	WB 30 - 130 %
% Nitrobenzene-d5	78		%	1	08/18/20	WB 30 - 130 %
% Phenol-d5	83		%	1	08/18/20	WB 30 - 130 %
% Terphenyl-d14	83		%	1	08/18/20	WB 30 - 130 %
Field Extraction	Completed				08/17/20	SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

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.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Corrosivity is based solely on the pH analysis performed above.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

14:25
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54964

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	08/18/20	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	08/18/20	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	50	08/18/20	JLI	SW8260
1,2-Dibromoethane	ND	100	ug/Kg	50	08/18/20	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,2-Dichloroethane	ND	200	ug/Kg	50	08/18/20	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	08/18/20	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	08/18/20	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	08/18/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acetone	ND	5000	ug/Kg	50	08/18/20	JLI SW8260
Acrylonitrile	ND	100	ug/Kg	50	08/18/20	JLI SW8260
Benzene	ND	200	ug/Kg	50	08/18/20	JLI SW8260
Bromobenzene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Bromochloromethane	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Bromodichloromethane	ND	210	ug/Kg	50	08/18/20	JLI SW8260
Bromoform	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Bromomethane	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Carbon Disulfide	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Chlorobenzene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Chloroethane	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Chloroform	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Chloromethane	ND	250	ug/Kg	50	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	100	ug/Kg	50	08/18/20	JLI SW8260
Dibromochloromethane	ND	100	ug/Kg	50	08/18/20	JLI SW8260
Dibromomethane	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Ethylbenzene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Isopropylbenzene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
m&p-Xylene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Methylene chloride	ND	500	ug/Kg	50	08/18/20	JLI SW8260
Naphthalene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
n-Butylbenzene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
n-Propylbenzene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
o-Xylene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Styrene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Tetrachloroethene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	08/18/20	JLI SW8260
Toluene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Total Xylenes	ND	250	ug/Kg	50	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	100	ug/Kg	50	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	08/18/20	JLI SW8260
Trichloroethene	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	08/18/20	JLI SW8260
Vinyl chloride	ND	250	ug/Kg	50	08/18/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	97		%	50	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	98		%	50	08/18/20	JLI 70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% Toluene-d8 (50x)	99		%	50	08/18/20	JLI 70 - 130 %
Field Extraction	Completed				08/17/20	SW5035A

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.

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Phyllis Shiller, Laboratory Director

August 24, 2020

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

August 24, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/17/20
08/17/20

Time

14:30
16:23

Laboratory Data

SDG ID: GCG54942
Phoenix ID: CG54965

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	08/18/20	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	08/18/20	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	08/18/20	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	08/18/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acetone	ND	250	ug/Kg	1	08/18/20	JLI SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Benzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Bromobenzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Bromoform	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Bromomethane	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Chloroethane	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Chloroform	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Chloromethane	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	08/18/20	JLI SW8260
Dibromomethane	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	08/18/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Methylene chloride	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Naphthalene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
o-Xylene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Styrene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Toluene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Total Xylenes	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Trichloroethene	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	08/18/20	JLI SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	08/18/20	JLI SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	1	08/18/20	JLI 70 - 130 %
% Bromofluorobenzene	98		%	1	08/18/20	JLI 70 - 130 %
% Dibromofluoromethane	99		%	1	08/18/20	JLI 70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% Toluene-d8	99		%	1	08/18/20	JLI 70 - 130 %
Field Extraction	Completed				08/17/20	SW5035A

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.

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Phyllis Shiller, Laboratory Director

August 24, 2020

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

QA/QC Report

August 24, 2020

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCS %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 541774 (mg/kg), QC Sample No: CG54066 2X (CG54951, CG54957, CG54958, CG54959, CG54960, CG54961, CG54962, CG54963)

Mercury - Soil	BRL	0.03	0.05	0.04	NC	92.9	99.8	7.2	95.1	92.7	2.6	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 541773 (mg/kg), QC Sample No: CG54954 2X (CG54942, CG54943, CG54944, CG54946, CG54947, CG54950, CG54954)

Mercury - Soil	BRL	0.03	0.06	0.08	NC	101	91.9	9.4	104	89.1	15.4	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 541711 (mg/kg), QC Sample No: CG54871 (CG54942, CG54943, CG54944, CG54946, CG54947, CG54950, CG54951)

ICP Metals - Soil

Arsenic	BRL	0.67	2.96	3.34	NC	95.8	99.7	4.0	88.3			75 - 125	35
Barium	BRL	0.33	117	122	4.20	94.1	98.7	4.8	105			75 - 125	35
Cadmium	BRL	0.33	0.59	0.61	NC	93.2	101	8.0	94.7			75 - 125	35
Chromium	BRL	0.33	17.7	18.4	3.90	95.7	100	4.4	96.4			75 - 125	35
Lead	BRL	0.33	4.88	4.69	4.00	89.4	93.0	3.9	88.7			75 - 125	35
Selenium	BRL	1.3	<1.6	<1.5	NC	94.8	101	6.3	92.3			75 - 125	35
Silver	BRL	0.33	<0.40	<0.36	NC	91.8	96.9	5.4	95.9			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 541833 (mg/kg), QC Sample No: CG54954 (CG54954, CG54957, CG54958, CG54959, CG54960, CG54961, CG54962)

ICP Metals - Soil

Arsenic	BRL	0.67	4.58	3.98	14.0	106	109	2.8	104	102	1.9	75 - 125	35
Barium	BRL	0.33	69.3	71.0	2.40	110	111	0.9	117	112	4.4	75 - 125	35
Cadmium	BRL	0.33	1.59	1.66	NC	101	108	6.7	101	98.7	2.3	75 - 125	35
Chromium	BRL	0.33	22.8	22.5	1.30	103	107	3.8	105	101	3.9	75 - 125	35
Lead	BRL	0.33	64.3	38.1	51.2	101	104	2.9	94.5	90.2	4.7	75 - 125	35
Selenium	BRL	1.3	<1.5	<1.3	NC	107	112	4.6	103	101	2.0	75 - 125	35
Silver	BRL	0.33	<0.38	<0.34	NC	97.5	109	11.1	103	100	3.0	75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 541882 (mg/kg), QC Sample No: CG54963 (CG54963)

ICP Metals - Soil

Arsenic	BRL	0.67	24.0	21.7	10.1	102	107	4.8	97.3			75 - 125	35
Barium	BRL	0.33	175	145	18.8	102	108	5.7	92.8			75 - 125	35
Cadmium	BRL	0.33	0.83	0.83	NC	96.6	101	4.5	93.8			75 - 125	35
Chromium	BRL	0.33	9.52	9.26	2.80	99.5	102	2.5	96.8			75 - 125	35
Lead	BRL	0.33	36.5	35.5	2.80	96.8	103	6.2	95.2			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.2	NC	104	106	1.9	96.9			75 - 125	35

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Silver	BRL	0.33	0.54	<0.31	NC	93.0	98.8	6.0	92.5			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.



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QA/QC Report

August 24, 2020

QA/QC Data

SDG I.D.: GCG54942

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 541985 (mg/Kg), QC Sample No: CG54962 4.67X (CG54962, CG54963)													
Reactivity Cyanide	BRL	5	<5	<4.9	NC	99.5						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	95.0						80 - 120	30
QA/QC Batch 541754 (PH), QC Sample No: CG54875 (CG54962, CG54963)													
pH at 25C - Soil			6.83	6.81	0.30	100						85 - 115	20



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QA/QC Report

August 24, 2020

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 541678 (mg/Kg), QC Sample No: CG54954 (CG54946, CG54947, CG54954, CG54961, CG54962, CG54963)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	66	75	12.8	69	61	12.3	60 - 120	30
% n-Pentacosane	83	%	77	84	8.7	58	57	1.7	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 541866 (ug/Kg), QC Sample No: CG54954 10X (CG54946, CG54947, CG54954, CG54961, CG54962, CG54963)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	170	87	83	4.7	88	68	25.6	40 - 140	30
PCB-1221	ND	170							40 - 140	30
PCB-1232	ND	170							40 - 140	30
PCB-1242	ND	170							40 - 140	30
PCB-1248	ND	170							40 - 140	30
PCB-1254	ND	170							40 - 140	30
PCB-1260	ND	170	93	94	1.1	92	73	23.0	40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	103	%	101	111	9.4	117	89	27.2	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	105	%	101	104	2.9	112	87	25.1	30 - 150	30
% TCMX (Surrogate Rec)	96	%	88	88	0.0	97	74	26.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	105	%	97	82	16.8	91	70	26.1	30 - 150	30

QA/QC Batch 541733 (ug/Kg), QC Sample No: CG54954 2X (CG54942, CG54943, CG54944, CG54945, CG54946, CG54947, CG54948, CG54950, CG54951, CG54952, CG54954, CG54955, CG54957, CG54958, CG54959, CG54960, CG54961)

Pesticides - Soil

4,4' -DDD	ND	1.7	86	66	26.3	76	90	16.9	40 - 140	30
4,4' -DDE	ND	1.7	79	60	27.3	78	68	13.7	40 - 140	30
4,4' -DDT	ND	1.7	82	63	26.2	91	81	11.6	40 - 140	30
a-BHC	ND	1.0	72	56	25.0	66	66	0.0	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	81	62	26.6	68	64	6.1	40 - 140	30
b-BHC	ND	1.0	89	69	25.3	89	52	52.5	40 - 140	30
Chlordane	ND	3.3	82	63	26.2	69	69	0.0	40 - 140	30
d-BHC	ND	3.3	79	60	27.3	68	70	2.9	40 - 140	30
Dieldrin	ND	1.0	82	62	27.8	70	71	1.4	40 - 140	30
Endosulfan I	ND	3.3	89	66	29.7	84	84	0.0	40 - 140	30
Endosulfan II	ND	3.3	90	67	29.3	75	80	6.5	40 - 140	30
Endosulfan sulfate	ND	3.3	98	73	29.2	91	92	1.1	40 - 140	30
Endrin	ND	3.3	88	67	27.1	77	82	6.3	40 - 140	30
Endrin aldehyde	ND	3.3	99	74	28.9	76	76	0.0	40 - 140	30
Endrin ketone	ND	3.3	93	70	28.2	78	82	5.0	40 - 140	30
g-BHC	ND	1.0	79	60	27.3	66	67	1.5	40 - 140	30

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Heptachlor	ND	3.3	81	62	26.6	68	66	3.0	40 - 140	30
Heptachlor epoxide	ND	3.3	83	65	24.3	64	65	1.6	40 - 140	30
Methoxychlor	ND	3.3	88	68	25.6	71	71	0.0	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	98	%	109	89	20.2	99	99	0.0	30 - 150	30
% DCBP (Confirmation)	89	%	117	86	30.5	88	86	2.3	30 - 150	30
% TCMX	87	%	104	80	26.1	82	79	3.7	30 - 150	30
% TCMX (Confirmation)	87	%	104	80	26.1	83	82	1.2	30 - 150	30

QA/QC Batch 541735 (ug/kg), QC Sample No: CG54954 (CG54944, CG54946, CG54947, CG54954)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	86	87	1.2	82	78	5.0	40 - 140	30
Acenaphthene	ND	230	96	96	0.0	82	82	0.0	30 - 130	30
Acenaphthylene	ND	230	91	92	1.1	78	77	1.3	40 - 140	30
Anthracene	ND	230	94	96	2.1	82	83	1.2	40 - 140	30
Benz(a)anthracene	ND	230	97	99	2.0	80	81	1.2	40 - 140	30
Benzo(a)pyrene	ND	230	99	101	2.0	79	76	3.9	40 - 140	30
Benzo(b)fluoranthene	ND	230	117	118	0.9	102	99	3.0	40 - 140	30
Benzo(ghi)perylene	ND	230	96	97	1.0	59	64	8.1	40 - 140	30
Benzo(k)fluoranthene	ND	230	76	78	2.6	63	56	11.8	40 - 140	30
Chrysene	ND	230	97	99	2.0	80	78	2.5	40 - 140	30
Dibenz(a,h)anthracene	ND	230	99	101	2.0	65	71	8.8	40 - 140	30
Fluoranthene	ND	230	92	94	2.2	75	73	2.7	40 - 140	30
Fluorene	ND	230	95	94	1.1	83	83	0.0	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	93	94	1.1	57	61	6.8	40 - 140	30
Naphthalene	ND	230	82	83	1.2	77	75	2.6	40 - 140	30
Phenanthrene	ND	230	93	95	2.1	77	73	5.3	40 - 140	30
Pyrene	ND	230	94	97	3.1	79	76	3.9	30 - 130	30
% 2-Fluorobiphenyl	82	%	84	85	1.2	71	70	1.4	30 - 130	30
% Nitrobenzene-d5	80	%	82	83	1.2	74	75	1.3	30 - 130	30
% Terphenyl-d14	95	%	94	96	2.1	85	85	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 541724 (ug/kg), QC Sample No: CG54962 (CG54962, CG54963)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	77	76	1.3	93	88	5.5	40 - 140	30
1,2,4-Trichlorobenzene	ND	230	75	75	0.0	71	70	1.4	40 - 140	30
1,2-Dichlorobenzene	ND	180	67	68	1.5	72	72	0.0	40 - 140	30
1,2-Diphenylhydrazine	ND	230	83	85	2.4	82	77	6.3	40 - 140	30
1,3-Dichlorobenzene	ND	230	65	65	0.0	65	62	4.7	40 - 140	30
1,4-Dichlorobenzene	ND	230	64	65	1.6	66	64	3.1	40 - 140	30
2,4,5-Trichlorophenol	ND	230	93	101	8.2	93	90	3.3	40 - 140	30
2,4,6-Trichlorophenol	ND	130	96	107	10.8	85	86	1.2	30 - 130	30
2,4-Dichlorophenol	ND	130	88	92	4.4	99	98	1.0	30 - 130	30
2,4-Dimethylphenol	ND	230	89	98	9.6	95	96	1.0	30 - 130	30
2,4-Dinitrophenol	ND	230	61	70	13.7	<10	<10	NC	30 - 130	30 m
2,4-Dinitrotoluene	ND	130	98	99	1.0	98	92	6.3	30 - 130	30
2,6-Dinitrotoluene	ND	130	99	103	4.0	93	90	3.3	40 - 140	30
2-Chloronaphthalene	ND	230	83	88	5.8	70	72	2.8	40 - 140	30
2-Chlorophenol	ND	230	86	93	7.8	101	96	5.1	30 - 130	30
2-Methylnaphthalene	ND	230	78	78	0.0	90	88	2.2	40 - 140	30
2-Methylphenol (o-cresol)	ND	230	93	99	6.3	115	116	0.9	40 - 140	30

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Nitroaniline	ND	330	131	128	2.3	44	40	9.5	40 - 140	30	
2-Nitrophenol	ND	230	80	88	9.5	74	75	1.3	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	98	105	6.9	131	132	0.8	30 - 130	30	m
3,3'-Dichlorobenzidine	ND	130	100	102	2.0	<10	<10	NC	40 - 140	30	m
3-Nitroaniline	ND	330	100	105	4.9	33	36	8.7	40 - 140	30	m
4,6-Dinitro-2-methylphenol	ND	230	82	80	2.5	15	<10	NC	30 - 130	30	m
4-Bromophenyl phenyl ether	ND	230	90	101	11.5	71	76	6.8	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	95	99	4.1	131	122	7.1	30 - 130	30	m
4-Chloroaniline	ND	230	68	75	9.8	42	42	0.0	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	89	88	1.1	89	86	3.4	40 - 140	30	
4-Nitroaniline	ND	230	93	103	10.2	89	90	1.1	40 - 140	30	
4-Nitrophenol	ND	230	88	87	1.1	131	118	10.4	30 - 130	30	m
Acenaphthene	ND	230	83	87	4.7	79	80	1.3	30 - 130	30	
Acenaphthylene	ND	130	86	88	2.3	71	71	0.0	40 - 140	30	
Acetophenone	ND	230	79	84	6.1	97	96	1.0	40 - 140	30	
Aniline	ND	330	59	70	17.1	39	41	5.0	40 - 140	30	m
Anthracene	ND	230	87	88	1.1	74	78	5.3	40 - 140	30	
Benz(a)anthracene	ND	230	95	99	4.1	75	80	6.5	40 - 140	30	
Benzidine	ND	330	21	14	40.0	<10	<10	NC	40 - 140	30	I,m,r
Benzo(a)pyrene	ND	130	97	104	7.0	74	78	5.3	40 - 140	30	
Benzo(b)fluoranthene	ND	160	111	122	9.4	91	96	5.3	40 - 140	30	
Benzo(ghi)perylene	ND	230	101	97	4.0	NC	NC	NC	40 - 140	30	
Benzo(k)fluoranthene	ND	230	66	73	10.1	45	54	18.2	40 - 140	30	
Benzoic Acid	ND	670	23	24	4.3	<10	20	NC	30 - 130	30	I,m
Benzyl butyl phthalate	ND	230	99	112	12.3	96	102	6.1	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	76	80	5.1	68	65	4.5	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	68	71	4.3	68	60	12.5	40 - 140	30	
Bis(2-chloroisopropyl)ether	ND	230	62	64	3.2	71	63	11.9	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	103	113	9.3	97	102	5.0	40 - 140	30	
Carbazole	ND	230	88	87	1.1	86	83	3.6	40 - 140	30	
Chrysene	ND	230	89	93	4.4	67	71	5.8	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	101	102	1.0	84	84	0.0	40 - 140	30	
Dibenzofuran	ND	230	84	85	1.2	83	83	0.0	40 - 140	30	
Diethyl phthalate	ND	230	91	92	1.1	90	85	5.7	40 - 140	30	
Dimethylphthalate	ND	230	89	94	5.5	77	77	0.0	40 - 140	30	
Di-n-butylphthalate	ND	670	99	94	5.2	92	91	1.1	40 - 140	30	
Di-n-octylphthalate	ND	230	97	100	3.0	93	96	3.2	40 - 140	30	
Fluoranthene	ND	230	91	85	6.8	69	59	15.6	40 - 140	30	
Fluorene	ND	230	89	86	3.4	91	88	3.4	40 - 140	30	
Hexachlorobenzene	ND	130	83	89	7.0	66	71	7.3	40 - 140	30	
Hexachlorobutadiene	ND	230	76	76	0.0	71	65	8.8	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	49	61	21.8	<10	<10	NC	40 - 140	30	m
Hexachloroethane	ND	130	66	67	1.5	78	54	36.4	40 - 140	30	r
Indeno(1,2,3-cd)pyrene	ND	230	104	100	3.9	110	117	6.2	40 - 140	30	
Isophorone	ND	130	71	75	5.5	72	67	7.2	40 - 140	30	
Naphthalene	ND	230	72	72	0.0	72	72	0.0	40 - 140	30	
Nitrobenzene	ND	130	80	85	6.1	103	101	2.0	40 - 140	30	
N-Nitrosodimethylamine	ND	230	57	45	23.5	44	37	17.3	40 - 140	30	m
N-Nitrosodi-n-propylamine	ND	130	78	84	7.4	97	89	8.6	40 - 140	30	
N-Nitrosodiphenylamine	ND	130	91	91	0.0	95	91	4.3	40 - 140	30	
Pentachloronitrobenzene	ND	230	91	96	5.3	78	73	6.6	40 - 140	30	
Pentachlorophenol	ND	230	69	73	5.6	60	55	8.7	30 - 130	30	
Phenanthrene	ND	130	84	86	2.4	70	74	5.6	40 - 140	30	

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenol	ND	230	86	94	8.9	103	104	1.0	30 - 130	30
Pyrene	ND	230	94	84	11.2	72	60	18.2	30 - 130	30
Pyridine	ND	230	32	29	9.8	31	26	17.5	40 - 140	30
% 2,4,6-Tribromophenol	45	%	90	98	8.5	77	78	1.3	30 - 130	30
% 2-Fluorobiphenyl	57	%	75	79	5.2	55	58	5.3	30 - 130	30
% 2-Fluorophenol	54	%	80	86	7.2	75	73	2.7	30 - 130	30
% Nitrobenzene-d5	55	%	75	80	6.5	91	93	2.2	30 - 130	30
% Phenol-d5	59	%	85	90	5.7	97	97	0.0	30 - 130	30
% Terphenyl-d14	80	%	98	87	11.9	107	96	10.8	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 541719 (ug/kg), QC Sample No: CG55019 (CG54942, CG54943)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	74	84	12.7	69	77	11.0	40 - 140	30
Acenaphthene	ND	230	81	88	8.3	78	81	3.8	30 - 130	30
Acenaphthylene	ND	230	81	88	8.3	75	81	7.7	40 - 140	30
Anthracene	ND	230	86	95	9.9	82	87	5.9	40 - 140	30
Benz(a)anthracene	ND	230	84	92	9.1	81	86	6.0	40 - 140	30
Benzo(a)pyrene	ND	230	87	92	5.6	82	85	3.6	40 - 140	30
Benzo(b)fluoranthene	ND	230	100	109	8.6	100	98	2.0	40 - 140	30
Benzo(ghi)perylene	ND	230	85	92	7.9	79	84	6.1	40 - 140	30
Benzo(k)fluoranthene	ND	230	64	69	7.5	58	66	12.9	40 - 140	30
Chrysene	ND	230	83	91	9.2	78	82	5.0	40 - 140	30
Dibenz(a,h)anthracene	ND	230	87	94	7.7	80	85	6.1	40 - 140	30
Fluoranthene	ND	230	91	99	8.4	88	92	4.4	40 - 140	30
Fluorene	ND	230	81	87	7.1	77	80	3.8	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	82	90	9.3	78	83	6.2	40 - 140	30
Naphthalene	ND	230	77	84	8.7	68	78	13.7	40 - 140	30
Phenanthrene	ND	230	82	92	11.5	78	82	5.0	40 - 140	30
Pyrene	ND	230	95	102	7.1	93	97	4.2	30 - 130	30
% 2-Fluorobiphenyl	77	%	72	76	5.4	64	70	9.0	30 - 130	30
% Nitrobenzene-d5	71	%	70	77	9.5	59	72	19.8	30 - 130	30
% Terphenyl-d14	96	%	92	97	5.3	88	90	2.2	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 541844 (ug/kg), QC Sample No: CG55270 (CG54950, CG54951, CG54957, CG54958, CG54959, CG54960, CG54961)

Semivolatiles - Soil

2-Methylnaphthalene	ND	230	75	76	1.3	68	80	16.2	40 - 140	30
Acenaphthene	ND	230	81	82	1.2	64	81	23.4	30 - 130	30
Acenaphthylene	ND	130	77	79	2.6	58	77	28.1	40 - 140	30
Anthracene	ND	230	78	80	2.5	64	82	24.7	40 - 140	30
Benz(a)anthracene	ND	230	79	80	1.3	58	76	26.9	40 - 140	30
Benzo(a)pyrene	ND	130	74	75	1.3	51	67	27.1	40 - 140	30
Benzo(b)fluoranthene	ND	160	88	90	2.2	66	83	22.8	40 - 140	30
Benzo(ghi)perylene	ND	230	75	76	1.3	50	65	26.1	40 - 140	30
Benzo(k)fluoranthene	ND	230	56	56	0.0	39	55	34.0	40 - 140	30
Chrysene	ND	230	79	81	2.5	60	78	26.1	40 - 140	30
Dibenz(a,h)anthracene	ND	130	76	75	1.3	57	71	21.9	40 - 140	30
Fluoranthene	ND	230	78	79	1.3	57	77	29.9	40 - 140	30
Fluorene	ND	230	77	78	1.3	63	78	21.3	40 - 140	30

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Indeno(1,2,3-cd)pyrene	ND	230	72	73	1.4	48	63	27.0	40 - 140	30
Naphthalene	ND	230	74	75	1.3	66	75	12.8	40 - 140	30
Phenanthrene	ND	130	78	80	2.5	62	84	30.1	40 - 140	30
Pyrene	ND	230	78	81	3.8	60	78	26.1	30 - 130	30
% 2-Fluorobiphenyl	75	%	70	73	4.2	55	69	22.6	30 - 130	30
% Nitrobenzene-d5	67	%	67	70	4.4	59	70	17.1	30 - 130	30
% Terphenyl-d14	79	%	80	81	1.2	65	78	18.2	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 541812 (ug/kg), QC Sample No: CG54925 (CG54965)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	104	106	1.9	93	102	9.2	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	97	99	2.0	92	99	7.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	104	105	1.0	90	102	12.5	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	100	100	0.0	90	101	11.5	70 - 130	30
1,1-Dichloroethane	ND	5.0	100	103	3.0	95	103	8.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	104	105	1.0	101	106	4.8	70 - 130	30
1,1-Dichloropropene	ND	5.0	95	97	2.1	92	97	5.3	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	90	93	3.3	81	86	6.0	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	99	103	4.0	86	100	15.1	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	85	89	4.6	79	82	3.7	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	91	93	2.2	85	91	6.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	107	109	1.9	85	103	19.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	99	101	2.0	88	100	12.8	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	91	94	3.2	84	91	8.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	100	101	1.0	91	101	10.4	70 - 130	30
1,2-Dichloropropane	ND	5.0	100	101	1.0	94	102	8.2	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	92	95	3.2	88	93	5.5	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	89	93	4.4	83	89	7.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	100	102	2.0	90	101	11.5	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	88	90	2.2	80	86	7.2	70 - 130	30
2,2-Dichloropropane	ND	5.0	105	101	3.9	90	100	10.5	70 - 130	30
2-Chlorotoluene	ND	5.0	92	95	3.2	87	93	6.7	70 - 130	30
2-Hexanone	ND	25	90	93	3.3	78	90	14.3	70 - 130	30
2-Isopropyltoluene	ND	5.0	95	98	3.1	92	97	5.3	70 - 130	30
4-Chlorotoluene	ND	5.0	89	92	3.3	84	90	6.9	70 - 130	30
4-Methyl-2-pentanone	ND	25	96	97	1.0	86	98	13.0	70 - 130	30
Acetone	ND	10	92	89	3.3	78	86	9.8	70 - 130	30
Acrylonitrile	ND	5.0	104	106	1.9	93	105	12.1	70 - 130	30
Benzene	ND	1.0	99	101	2.0	95	101	6.1	70 - 130	30
Bromobenzene	ND	5.0	95	97	2.1	87	95	8.8	70 - 130	30
Bromochloromethane	ND	5.0	103	103	0.0	94	105	11.1	70 - 130	30
Bromodichloromethane	ND	5.0	105	105	0.0	93	103	10.2	70 - 130	30
Bromoform	ND	5.0	106	106	0.0	81	96	16.9	70 - 130	30
Bromomethane	ND	5.0	106	105	0.9	99	102	3.0	70 - 130	30
Carbon Disulfide	ND	5.0	104	106	1.9	99	105	5.9	70 - 130	30
Carbon tetrachloride	ND	5.0	101	103	2.0	93	101	8.2	70 - 130	30
Chlorobenzene	ND	5.0	94	97	3.1	89	96	7.6	70 - 130	30
Chloroethane	ND	5.0	101	106	4.8	97	106	8.9	70 - 130	30
Chloroform	ND	5.0	99	99	0.0	92	100	8.3	70 - 130	30
Chloromethane	ND	5.0	92	92	0.0	86	94	8.9	70 - 130	30

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	5.0	94	84	11.2	87	100	13.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	106	105	0.9	94	102	8.2	70 - 130	30
Dibromochloromethane	ND	3.0	112	112	0.0	92	105	13.2	70 - 130	30
Dibromomethane	ND	5.0	97	97	0.0	87	98	11.9	70 - 130	30
Dichlorodifluoromethane	ND	5.0	104	108	3.8	105	108	2.8	70 - 130	30
Ethylbenzene	ND	1.0	94	97	3.1	91	97	6.4	70 - 130	30
Hexachlorobutadiene	ND	5.0	89	95	6.5	88	91	3.4	70 - 130	30
Isopropylbenzene	ND	1.0	94	97	3.1	91	97	6.4	70 - 130	30
m&p-Xylene	ND	2.0	94	96	2.1	89	95	6.5	70 - 130	30
Methyl ethyl ketone	ND	5.0	94	95	1.1	82	89	8.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	97	98	1.0	87	96	9.8	70 - 130	30
Methylene chloride	ND	5.0	92	93	1.1	87	94	7.7	70 - 130	30
Naphthalene	ND	5.0	101	104	2.9	91	101	10.4	70 - 130	30
n-Butylbenzene	ND	1.0	88	90	2.2	84	88	4.7	70 - 130	30
n-Propylbenzene	ND	1.0	91	94	3.2	87	92	5.6	70 - 130	30
o-Xylene	ND	2.0	97	98	1.0	91	99	8.4	70 - 130	30
p-Isopropyltoluene	ND	1.0	91	95	4.3	88	92	4.4	70 - 130	30
sec-Butylbenzene	ND	1.0	98	102	4.0	96	101	5.1	70 - 130	30
Styrene	ND	5.0	95	97	2.1	88	96	8.7	70 - 130	30
tert-Butylbenzene	ND	1.0	93	96	3.2	90	97	7.5	70 - 130	30
Tetrachloroethene	ND	5.0	93	95	2.1	91	96	5.3	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	94	98	4.2	85	97	13.2	70 - 130	30
Toluene	ND	1.0	98	98	0.0	94	100	6.2	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	105	112	6.5	102	109	6.6	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	110	109	0.9	93	104	11.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	129	131	1.5	99	114	14.1	70 - 130	30
Trichloroethene	ND	5.0	96	97	1.0	93	100	7.3	70 - 130	30
Trichlorofluoromethane	ND	5.0	97	99	2.0	93	101	8.2	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	94	102	8.2	94	97	3.1	70 - 130	30
Vinyl chloride	ND	5.0	102	105	2.9	100	105	4.9	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	98	%	100	101	1.0	101	100	1.0	70 - 130	30
% Dibromofluoromethane	102	%	102	100	2.0	103	99	4.0	70 - 130	30
% Toluene-d8	100	%	100	99	1.0	101	100	1.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this Low Level 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 541812H (ug/kg), QC Sample No: CG54925 50X (CG54942 (50X) , CG54943 (50X) , CG54946 (50X) , CG54947 (50X) , CG54962 (50X) , CG54963 (50X) , CG54964 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	103	106	2.9				70 - 130	30
1,1,1-Trichloroethane	ND	250	97	98	1.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	105	102	2.9				70 - 130	30
1,1,2-Trichloroethane	ND	250	99	100	1.0				70 - 130	30
1,1-Dichloroethane	ND	250	101	104	2.9				70 - 130	30
1,1-Dichloroethene	ND	250	93	97	4.2				70 - 130	30
1,1-Dichloropropene	ND	250	100	100	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	250	101	101	0.0				70 - 130	30
1,2,3-Trichloropropane	ND	250	99	97	2.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	250	103	101	2.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	250	97	97	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dibromo-3-chloropropane	ND	250	103	103	0.0				70 - 130	30
1,2-Dibromoethane	ND	250	100	99	1.0				70 - 130	30
1,2-Dichlorobenzene	ND	250	100	99	1.0				70 - 130	30
1,2-Dichloroethane	ND	250	100	99	1.0				70 - 130	30
1,2-Dichloropropane	ND	250	101	101	0.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	250	98	97	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	250	98	99	1.0				70 - 130	30
1,3-Dichloropropane	ND	250	100	101	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	250	97	97	0.0				70 - 130	30
2,2-Dichloropropane	ND	250	103	105	1.9				70 - 130	30
2-Chlorotoluene	ND	250	97	97	0.0				70 - 130	30
2-Hexanone	ND	1300	86	85	1.2				70 - 130	30
2-Isopropyltoluene	ND	250	100	101	1.0				70 - 130	30
4-Chlorotoluene	ND	250	97	96	1.0				70 - 130	30
4-Methyl-2-pentanone	ND	1300	93	93	0.0				70 - 130	30
Acetone	ND	500	73	70	4.2				70 - 130	30
Acrylonitrile	ND	250	102	102	0.0				70 - 130	30
Benzene	ND	250	102	103	1.0				70 - 130	30
Bromobenzene	ND	250	99	98	1.0				70 - 130	30
Bromochloromethane	ND	250	102	104	1.9				70 - 130	30
Bromodichloromethane	ND	250	101	101	0.0				70 - 130	30
Bromoform	ND	250	98	97	1.0				70 - 130	30
Bromomethane	ND	250	74	78	5.3				70 - 130	30
Carbon Disulfide	ND	250	96	96	0.0				70 - 130	30
Carbon tetrachloride	ND	250	98	100	2.0				70 - 130	30
Chlorobenzene	ND	250	99	101	2.0				70 - 130	30
Chloroethane	ND	250	33	34	3.0				70 - 130	30
Chloroform	ND	250	99	100	1.0				70 - 130	30
Chloromethane	ND	250	95	97	2.1				70 - 130	30
cis-1,2-Dichloroethene	ND	250	85	89	4.6				70 - 130	30
cis-1,3-Dichloropropene	ND	250	105	105	0.0				70 - 130	30
Dibromochloromethane	ND	150	106	106	0.0				70 - 130	30
Dibromomethane	ND	250	95	96	1.0				70 - 130	30
Dichlorodifluoromethane	ND	250	104	107	2.8				70 - 130	30
Ethylbenzene	ND	250	101	102	1.0				70 - 130	30
Hexachlorobutadiene	ND	250	103	105	1.9				70 - 130	30
Isopropylbenzene	ND	250	98	98	0.0				70 - 130	30
m&p-Xylene	ND	250	100	101	1.0				70 - 130	30
Methyl ethyl ketone	ND	250	89	87	2.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	96	96	0.0				70 - 130	30
Methylene chloride	ND	250	92	94	2.2				70 - 130	30
Naphthalene	ND	250	107	105	1.9				70 - 130	30
n-Butylbenzene	ND	250	98	98	0.0				70 - 130	30
n-Propylbenzene	ND	250	98	97	1.0				70 - 130	30
o-Xylene	ND	250	102	104	1.9				70 - 130	30
p-Isopropyltoluene	ND	250	98	99	1.0				70 - 130	30
sec-Butylbenzene	ND	250	105	105	0.0				70 - 130	30
Styrene	ND	250	100	102	2.0				70 - 130	30
tert-Butylbenzene	ND	250	98	98	0.0				70 - 130	30
Tetrachloroethene	ND	250	101	100	1.0				70 - 130	30
Tetrahydrofuran (THF)	ND	250	93	94	1.1				70 - 130	30
Toluene	ND	250	101	102	1.0				70 - 130	30
trans-1,2-Dichloroethene	ND	250	111	112	0.9				70 - 130	30

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
trans-1,3-Dichloropropene	ND	250	106	105	0.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	124	121	2.4				70 - 130	30
Trichloroethene	ND	250	100	100	0.0				70 - 130	30
Trichlorofluoromethane	ND	250	28	27	3.6				70 - 130	30
Trichlorotrifluoroethane	ND	250	95	95	0.0				70 - 130	30
Vinyl chloride	ND	250	108	113	4.5				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	101	100	1.0				70 - 130	30
% Bromofluorobenzene	97	%	100	101	1.0				70 - 130	30
% Dibromofluoromethane	99	%	99	100	1.0				70 - 130	30
% Toluene-d8	99	%	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 541989 (ug/kg), QC Sample No: CG54954 (CG54942, CG54943, CG54944, CG54946, CG54947, CG54954, CG54961, CG54962, CG54963)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	104	107	2.8	111	108	2.7	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	96	100	4.1	106	102	3.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	107	109	1.9	137	131	4.5	70 - 130	30	m
1,1,2-Trichloroethane	ND	5.0	101	104	2.9	101	101	0.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	101	104	2.9	110	108	1.8	70 - 130	30	
1,1-Dichloroethene	ND	5.0	106	107	0.9	116	111	4.4	70 - 130	30	
1,1-Dichloropropene	ND	5.0	99	102	3.0	106	100	5.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	97	100	3.0	51	53	3.8	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	100	103	3.0	134	125	6.9	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	5.0	97	102	5.0	57	58	1.7	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	95	100	5.1	114	110	3.6	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	102	110	7.5	111	106	4.6	70 - 130	30	
1,2-Dibromoethane	ND	5.0	99	103	4.0	103	101	2.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	97	101	4.0	92	90	2.2	70 - 130	30	
1,2-Dichloroethane	ND	5.0	102	104	1.9	105	103	1.9	70 - 130	30	
1,2-Dichloropropane	ND	5.0	103	104	1.0	109	104	4.7	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	96	101	5.1	121	116	4.2	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	96	100	4.1	94	95	1.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	102	105	2.9	110	107	2.8	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	93	98	5.2	90	89	1.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	100	106	5.8	109	103	5.7	70 - 130	30	
2-Chlorotoluene	ND	5.0	97	102	5.0	118	114	3.4	70 - 130	30	
2-Hexanone	ND	25	86	92	6.7	34	51	40.0	70 - 130	30	m,r
2-Isopropyltoluene	ND	5.0	97	101	4.0	117	111	5.3	70 - 130	30	
4-Chlorotoluene	ND	5.0	96	100	4.1	109	105	3.7	70 - 130	30	
4-Methyl-2-pentanone	ND	25	93	96	3.2	60	76	23.5	70 - 130	30	m
Acetone	ND	10	86	89	3.4	72	67	7.2	70 - 130	30	m
Acrylonitrile	ND	5.0	100	105	4.9	55	72	26.8	70 - 130	30	m
Benzene	ND	1.0	102	105	2.9	107	103	3.8	70 - 130	30	
Bromobenzene	ND	5.0	99	101	2.0	109	105	3.7	70 - 130	30	
Bromochloromethane	ND	5.0	105	105	0.0	105	106	0.9	70 - 130	30	
Bromodichloromethane	ND	5.0	105	108	2.8	104	103	1.0	70 - 130	30	
Bromoform	ND	5.0	100	104	3.9	91	92	1.1	70 - 130	30	
Bromomethane	ND	5.0	117	118	0.9	100	100	0.0	70 - 130	30	
Carbon Disulfide	ND	5.0	104	106	1.9	106	103	2.9	70 - 130	30	
Carbon tetrachloride	ND	5.0	100	102	2.0	107	103	3.8	70 - 130	30	

QA/QC Data

SDG I.D.: GCG54942

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chlorobenzene	ND	5.0	99	101	2.0	99	96	3.1	70 - 130	30
Chloroethane	ND	5.0	115	114	0.9	117	118	0.9	70 - 130	30
Chloroform	ND	5.0	101	100	1.0	106	105	0.9	70 - 130	30
Chloromethane	ND	5.0	100	103	3.0	107	103	3.8	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	100	102	2.0	105	102	2.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	108	109	0.9	95	93	2.1	70 - 130	30
Dibromochloromethane	ND	3.0	109	114	4.5	110	109	0.9	70 - 130	30
Dibromomethane	ND	5.0	100	100	0.0	99	98	1.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	118	119	0.8	131	124	5.5	70 - 130	30 m
Ethylbenzene	ND	1.0	98	103	5.0	108	103	4.7	70 - 130	30
Hexachlorobutadiene	ND	5.0	94	100	6.2	94	75	22.5	70 - 130	30
Isopropylbenzene	ND	1.0	98	103	5.0	133	123	7.8	70 - 130	30 m
m&p-Xylene	ND	2.0	98	102	4.0	105	100	4.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	87	90	3.4	66	69	4.4	70 - 130	30 m
Methyl t-butyl ether (MTBE)	ND	1.0	106	107	0.9	112	113	0.9	70 - 130	30
Methylene chloride	ND	5.0	94	94	0.0	97	96	1.0	70 - 130	30
Naphthalene	ND	5.0	107	112	4.6	57	59	3.4	70 - 130	30 m
n-Butylbenzene	ND	1.0	95	100	5.1	109	102	6.6	70 - 130	30
n-Propylbenzene	ND	1.0	96	101	5.1	124	116	6.7	70 - 130	30
o-Xylene	ND	2.0	99	104	4.9	106	100	5.8	70 - 130	30
p-Isopropyltoluene	ND	1.0	96	102	6.1	116	111	4.4	70 - 130	30
sec-Butylbenzene	ND	1.0	103	108	4.7	131	122	7.1	70 - 130	30 m
Styrene	ND	5.0	98	102	4.0	65	66	1.5	70 - 130	30 m
tert-Butylbenzene	ND	1.0	98	102	4.0	128	120	6.5	70 - 130	30
Tetrachloroethene	ND	5.0	97	102	5.0	103	97	6.0	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	94	96	2.1	108	104	3.8	70 - 130	30
Toluene	ND	1.0	101	104	2.9	103	99	4.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	110	111	0.9	115	111	3.5	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	111	112	0.9	95	93	2.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	126	130	3.1	113	112	0.9	70 - 130	30
Trichloroethene	ND	5.0	100	103	3.0	102	97	5.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	106	110	3.7	118	116	1.7	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	95	99	4.1	110	103	6.6	70 - 130	30
Vinyl chloride	ND	5.0	111	114	2.7	123	117	5.0	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	99	1.0	99	100	1.0	70 - 130	30
% Bromofluorobenzene	98	%	100	101	1.0	91	93	2.2	70 - 130	30
% Dibromofluoromethane	96	%	100	95	5.1	98	100	2.0	70 - 130	30
% Toluene-d8	99	%	101	101	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
August 24, 2020

Monday, August 24, 2020

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GCG54942 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG54942	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	1200	1100	1000	1000	ug/Kg
CG54942	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	5700	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	7300	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	8500	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	7400	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	5700	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	1200	1100	1000	1000	ug/Kg
CG54942	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	7400	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	5200	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	7400	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	8500	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	7300	2500	1000	1000	ug/Kg
CG54942	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	6500	2500	1000	1000	ug/Kg
CG54943	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	ND	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1400	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2200	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1900	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1600	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	ND	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1400	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1900	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1500	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1400	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1600	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2200	1100	1000	1000	ug/Kg
CG54943	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1900	1100	1000	1000	ug/Kg
CG54946	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1600	1100	1000	1000	ug/Kg
CG54946	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2400	1100	1000	1000	ug/Kg
CG54946	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1400	1200	1000	1000	ug/Kg
CG54946	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1500	1200	1000	1000	ug/Kg
CG54946	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2200	1100	1000	1000	ug/Kg
CG54946	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1600	1100	1000	1000	ug/Kg
CG54946	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1400	1200	1000	1000	ug/Kg
CG54946	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1500	1200	1000	1000	ug/Kg
CG54946	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1400	1200	1000	1000	ug/Kg
CG54946	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2400	1100	1000	1000	ug/Kg
CG54946	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1800	1100	1000	1000	ug/Kg
CG54946	\$PEST_SMR	4,4' -DDD	CT / RSR GB (mg/kg) / APS Organics	31	7.0	20	20	ug/Kg
CG54946	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	110	35	20	20	ug/Kg
CG54946	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	95	35	20	20	ug/Kg

Monday, August 24, 2020

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GCG54942 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG54946	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	270	35	66	66	ug/Kg
CG54946	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	270	35	66	66	ug/Kg
CG54947	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1300	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1800	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1500	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1400	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1400	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1300	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1300	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1500	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1200	240	1000	1000	ug/Kg
CG54947	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1800	240	1000	1000	ug/Kg
CG54948	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	170	35	20	20	ug/Kg
CG54948	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	210	35	20	20	ug/Kg
CG54948	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	120	35	66	66	ug/Kg
CG54948	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	20	3.5	7	7	ug/Kg
CG54948	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	120	35	66	66	ug/Kg
CG54950	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2500	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3600	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3900	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3400	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2500	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2500	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	3500	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3400	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3900	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3600	240	1000	1000	ug/Kg
CG54950	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2600	240	1000	1000	ug/Kg
CG54950	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	70	34	66	66	ug/Kg
CG54950	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	70	34	66	66	ug/Kg
CG54951	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1700	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2300	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2900	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2600	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1700	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	2600	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1700	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2900	240	1000	1000	ug/Kg

Monday, August 24, 2020

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GCG54942 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG54951	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2300	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1900	240	1000	1000	ug/Kg
CG54951	\$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2600	240	1000	1000	ug/Kg
CG54952	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	70	34	66	66	ug/Kg
CG54952	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	69	6.8	20	20	ug/Kg
CG54952	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	71	6.8	20	20	ug/Kg
CG54952	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	70	34	66	66	ug/Kg
CG54954	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	28	6.9	20	20	ug/Kg
CG54954	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	28	6.9	20	20	ug/Kg
CG54955	\$PEST_SMR	Dieldrin	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	39	3.4	38	38	ug/Kg
CG54955	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	22	6.7	20	20	ug/Kg
CG54955	\$PEST_SMR	Aldrin	CT / RSR GB (mg/kg) / APS Organics	15	3.4	10	10	ug/Kg
CG54955	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	100	34	66	66	ug/Kg
CG54955	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	100	34	66	66	ug/Kg
CG54955	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	39	3.4	7	7	ug/Kg
CG54959	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	83	35	20	20	ug/Kg
CG54959	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	46	7.1	20	20	ug/Kg
CG54960	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	55	7.2	20	20	ug/Kg
CG54960	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	45	7.2	20	20	ug/Kg
CG54961	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	82	36	20	20	ug/Kg
CG54961	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	51	36	20	20	ug/Kg
CG54961	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	76	36	66	66	ug/Kg
CG54961	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	76	36	66	66	ug/Kg
CG54962	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1800	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1400	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2500	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2000	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	5500	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1800	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1800	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1400	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2500	240	1000	1000	ug/Kg
CG54962	\$8270-SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2000	240	1000	1000	ug/Kg
CG54962	\$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	520	250	500	500	mg/Kg
CG54963	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	24.0	0.71	10	10	mg/Kg

Monday, August 24, 2020

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report
GCG54942 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

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: Fuss & O'Neill, Inc.

Project Location: RIVERFRONT/W MSP

Project Number:

Laboratory Sample ID(s): CG54942-CG54948,
CG54950-CG54952, CG54954, CG54955, CG54957-CG54965

Sampling Date(s): 8/17/2020

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?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ 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)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☐ Yes ☒ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ICP Narration, PEST Narration, SVOA Narration, VOA Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ 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?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☒ Yes ☐ 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 24, 2020

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

August 24, 2020

SDG I.D.: GCG54942

SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are 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.

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 08/19/20-1

Dustin Harrison, Greg Danielewski, Chemist 08/19/20

CG54962, CG54963

The samples were distilled in accordance with the method.

The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequency of one per ten samples.

The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

QC (Batch Specific):

Batch 541985 (CG54962)

CG54962, CG54963

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 08/20/20-1

Jeff Bucko, Chemist 08/20/20

CG54946 (5X), CG54962 (5X)

The initial calibration (ETPH808I) 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 (820A003_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-FID21 08/17/20-1

Jeff Bucko, Chemist 08/17/20

CG54961 (1X), CG54963 (1X)



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ETPH Narration

The initial calibration (ETPH625I) 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) 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 08/17/20-1 Jeff Bucko, Chemist 08/17/20

CG54947 (5X), CG54954 (5X)

The initial calibration (ETPH805I) 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) 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 541678 (CG54954)

CG54946, CG54947, CG54954, CG54961, CG54962, CG54963

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 08/18/20 07:54 Rick Schweitzer, Chemist 08/18/20

CG54942, CG54943, CG54944, CG54946, CG54947, CG54950, CG54951, CG54954, CG54957, CG54958, CG54959, CG54960, CG54961, CG54962, CG54963

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 541774 (CG54066)

CG54951, CG54957, CG54958, CG54959, CG54960, CG54961, CG54962, CG54963

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

QC (Site Specific):

Batch 541773 (CG54954)

CG54942, CG54943, CG54944, CG54946, CG54947, CG54950, CG54954

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? No.

QC Batch 541833 (Samples: CG54954, CG54957, CG54958, CG54959, CG54960, CG54961, CG54962): -----

The Sample/Duplicate RPD exceeds the method criteria for one analyte, therefore there may be variability in the reported result. (Lead)

Instrument:

ARCOS-2 08/19/20 09:54

Cindy Pearce, Tina Hall, Chemist 08/19/20

CG54954, CG54957, CG54958, CG54959, CG54960, CG54961, CG54962, CG54963

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.

BLUE 08/17/20 10:52

Cindy Pearce, Chemist 08/17/20

CG54942, CG54943, CG54944, CG54946, CG54947, CG54950, CG54951

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. 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 541711 (CG54871)

CG54942, CG54943, CG54944, CG54946, CG54947, CG54950, CG54951

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.



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ICP Metals Narration

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 541833 (CG54954)

CG54954, CG54957, CG54958, CG54959, CG54960, CG54961, CG54962

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.
All MSD recoveries were within 75 - 125 with the following exceptions: None.
All MS/MSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 541882 (CG54963)

CG54963

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 08/19/20-1

Saadia Chudary, Chemist 08/19/20

CG54946 (10X), CG54947 (10X), CG54954 (10X), CG54961 (10X), CG54962 (10X)

The initial calibration (PC808AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC808BI) 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 08/19/20-1

Saadia Chudary, Chemist 08/19/20

CG54963 (10X)

The initial calibration (PC702AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC702BI) 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: CG54963

Preceding CC 819B037 - PCB 1260 16%H (%)

Succeeding CC 819B057 - None.

QC (Site Specific):

Batch 541866 (CG54954)

CG54946, CG54947, CG54954, CG54961, CG54962, CG54963

All LCS recoveries were within 40 - 140 with the following exceptions: None.



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PCB 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.
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.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 541733 (Samples: CG54942, CG54943, CG54944, CG54945, CG54946, CG54947, CG54948, CG54950, CG54951, CG54952, CG54954, CG54955, CG54957, CG54958, CG54959, CG54960, CG54961): -----

The MS/MSD RPD exceeds the method criteria for one analyte, therefore there may be variability in the reported result. (b-BHC)

Instrument:

AU-ECD35 08/19/20-1 Chelsey Guerette, Chemist 08/19/20

CG54943 (2X), CG54946 (2X), CG54950 (2X), CG54951 (2X)

The initial calibration (PS0818AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0818BI) 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 08/20/20-1 Chelsey Guerette, Chemist 08/20/20

CG54942 (10X), CG54945 (2X), CG54946 (10X), CG54948 (2X), CG54955 (2X), CG54959 (10X), CG54961 (10X)

The initial calibration (PS0818AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0818BI) 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: CG54942, CG54945, CG54946, CG54948, CG54955, CG54959, CG54961

Preceding CC 820A004 - None.

Succeeding CC 820A027 - b-BHC 27%H (20%), Endrin -24%L (20%), Methoxychlor -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.

Samples: CG54942, CG54945, CG54946, CG54948, CG54955, CG54959, CG54961

Preceding CC 820B004 - a-BHC -25%L (20%), Endrin aldehyde -22%L (20%)

Succeeding CC 820B027 - Endrin aldehyde 36%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.

AU-ECD7 08/19/20-1 Chelsey Guerette, Chemist 08/19/20

CG54944 (2X), CG54947 (2X), CG54948 (10X), CG54952 (2X), CG54954 (2X), CG54957 (2X), CG54958 (2X), CG54959 (2X), CG54960 (2X), CG54961 (2X)

The initial calibration (PS0818AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0818BI) 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.



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PEST Narration

The continuing calibration %D for the compound list was less than 20% except for the following compounds:

Samples: CG54958, CG54959, CG54960

Preceding CC 819A031 - None.

Succeeding CC 819A044 - Endrin aldehyde 23%H (20%)

Samples: CG54944, CG54947, CG54948, CG54952, CG54954, CG54957, CG54961

Preceding CC 819A044 - Endrin aldehyde 23%H (20%)

Succeeding CC 819A058 - Endrin aldehyde 25%H (20%)

QC (Site Specific):

Batch 541733 (CG54954)

CG54942, CG54943, CG54944, CG54945, CG54946, CG54947, CG54948, CG54950, CG54951, CG54952, CG54954, CG54955, CG54957, CG54958, CG54959, CG54960, CG54961

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: b-BHC(52.5%)

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 541724 (Samples: CG54962, CG54963): -----

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 likely. (2,4-Dinitrophenol, 3,3'-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, Hexachlorocyclopentadiene)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a low bias is possible. (3-Nitroaniline, Aniline, N-Nitrosodimethylamine)

The LCS/LCSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample(s). No significant variability is suspected. (Benzidine)

The MS and/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. (3&4-Methylphenol (m&p-cresol), 4-Chloro-3-methylphenol, 4-Nitrophenol)

The MS/MSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample. No significant bias is suspected. (Hexachloroethane)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Benzidine, Benzoic Acid, Pyridine)

Instrument:

CHEM07 08/18/20-1

Wes Bryon, Chemist 08/18/20

CG54963 (1X)



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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 (CHEM07/7_SPLIT_0810):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.084 (0.1), Hexachlorobenzene 0.082 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0818_03-7_SPLIT_0810):

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: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.097 (0.1), Hexachlorobenzene 0.085 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM28 08/17/20-2

Matt Richard, Chemist 08/17/20

CG54944 (1X), CG54946 (10X), CG54947 (1X), CG54954 (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_0803):

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 (CHEM28/0817_29-28_BN_0803):

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 08/18/20-2

Wes Bryon, Chemist 08/18/20

CG54950 (1X), CG54951 (1X), CG54957 (1X), CG54958 (1X), CG54959 (1X), CG54960 (1X), CG54961 (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_0804):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: None.



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SDG I.D.: GCG54942

SVOA Narration

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0818_14-29_SPLIT_0804):

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 08/17/20-1

Matt Richard, Chemist 08/17/20

CG54962 (1X)

Initial Calibration Evaluation (CHEM36/36_SPLIT_0803):

100% of target compounds met criteria.

The following compounds had %RSDs >20%: None.

The following compounds did not meet recommended response factors: 2-Nitrophenol 0.060 (0.1), Hexachlorobenzene 0.084 (0.1)

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM36/0817_08-36_SPLIT_0803):

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 0.085 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM69 08/17/20-1

Matt Richard, Chemist 08/17/20

CG54942 (10X), CG54943 (10X)

Initial Calibration Evaluation (CHEM69/69_BN_0806):

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 (CHEM69/0817_06-69_BN_0806):

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 541719 (CG55019)

CG54942, CG54943

All LCS recoveries were within 40 - 140 with the following exceptions: None.



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SDG I.D.: GCG54942

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%)

Batch 541844 (CG55270)

CG54950, CG54951, CG54957, CG54958, CG54959, CG54960, CG54961

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 541724 (CG54962)

CG54962, CG54963

All LCS recoveries were within 40 - 140 with the following exceptions: Benzidine(21%), Benzoic Acid(23%), Pyridine(32%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Benzidine(14%), Benzoic Acid(24%), Pyridine(29%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: Benzidine(40.0%)
All MS recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(<10%), 3&4-Methylphenol (m&p-cresol)(131%), 3,3'-Dichlorobenzidine(<10%), 3-Nitroaniline(33%), 4,6-Dinitro-2-methylphenol(15%), 4-Chloro-3-methylphenol(131%), 4-Nitrophenol(131%), Aniline(39%), Benzidine(<10%), Benzoic Acid(<10%), Hexachlorocyclopentadiene(<10%), Pyridine(31%)
All MSD recoveries were within 40 - 140 with the following exceptions: 2,4-Dinitrophenol(<10%), 3&4-Methylphenol (m&p-cresol)(132%), 3,3'-Dichlorobenzidine(<10%), 3-Nitroaniline(36%), 4,6-Dinitro-2-methylphenol(<10%), Benzidine(<10%), Benzoic Acid(20%), Hexachlorocyclopentadiene(<10%), N-Nitrosodimethylamine(37%), Pyridine(26%)
All MS/MSD RPDs were less than 30% with the following exceptions: Hexachloroethane(36.4%)
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 541735 (CG54954)

CG54944, CG54946, CG54947, CG54954

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 541812 (Samples: CG54965): -----

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 541812H: -----

The LCS/LCSD recovery is below the method criteria. A low bias for these analytes is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 541989 (Samples: CG54942, CG54943, CG54944, CG54946, CG54947, CG54954, CG54961, CG54962, CG54963): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a low bias is possible. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Hexanone, 4-Methyl-2-pentanone, Acetone, Acrylonitrile, Methyl ethyl ketone, Naphthalene, Styrene)

The MS and/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. (1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, Dichlorodifluoromethane, Isopropylbenzene, sec-Butylbenzene)

The MS/MSD RPD exceeds the method criteria for one analyte, therefore there may be variability in the reported result. (2-Hexanone)

Instrument:

CHEM31 08/17/20-2

Jane Li, Chemist 08/17/20

CG54942 (50X), CG54943 (50X), CG54946 (50X), CG54947 (50X), CG54962 (50X), CG54963 (50X), CG54964 (50X), CG54965 (1X)

Initial Calibration Evaluation (CHEM31/VT-L081220P):

95% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Acetone 22% (20%), Bromoform 21% (20%), trans-1,4-dichloro-2-butene 27% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.086 (0.1), Bromoform 0.094 (0.1), Tetrachloroethene 0.170 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0817_05-VT-L081220P):

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: None.

The following compounds did not meet maximum % deviations: None.

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 08/18/20-1

Jane Li, Chemist 08/18/20

CG54942 (1X), CG54943 (1X), CG54944 (1X), CG54946 (1X), CG54947 (1X), CG54954 (1X, 50X), CG54961 (1X), CG54962 (1X), CG54963 (1X)

Initial Calibration Evaluation (CHEM31/VT-L081220P):

95% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Acetone 22% (20%), Bromoform 21%



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

August 24, 2020

SDG I.D.: GCG54942

VOA Narration

(20%), trans-1,4-dichloro-2-butene 27% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.086 (0.1), Bromoform 0.094 (0.1), Tetrachloroethene 0.170 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0818_02-VT-L081220P):

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 541812 (CG54925)

CHEM31 8/17/2020-2

CG54965(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(131%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A blank MS/MSD was analyzed with this Low Level 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 541812H (CG54925)

CHEM31 8/17/2020-2

CG54942(50X), CG54943(50X), CG54946(50X), CG54947(50X), CG54962(50X), CG54963(50X), CG54964(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Chloroethane(33%), Trichlorofluoromethane(28%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloroethane(34%), Trichlorofluoromethane(27%)

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 541989 (CG54954)

CHEM31 8/18/2020-1

CG54942(1X), CG54943(1X), CG54944(1X), CG54946(1X), CG54947(1X), CG54954(1X), CG54961(1X), CG54962(1X), CG54963(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: 1,1,2,2-Tetrachloroethane(137%), 1,2,3-Trichlorobenzene(51%), 1,2,3-Trichloropropane(134%), 1,2,4-Trichlorobenzene(57%), 2-Hexanone(34%), 4-Methyl-2-pentanone(60%), Acrylonitrile(55%), Dichlorodifluoromethane(131%), Isopropylbenzene(133%), Methyl ethyl ketone(66%), Naphthalene(57%), sec-Butylbenzene(131%), Styrene(65%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,1,2,2-Tetrachloroethane(131%), 1,2,3-Trichlorobenzene(53%), 1,2,4-Trichlorobenzene(58%), 2-Hexanone(51%), Acetone(67%), Methyl ethyl ketone(69%), Naphthalene(59%), Styrene(66%)

All MS/MSD RPDs were less than 30% with the following exceptions: 2-Hexanone(40.0%)

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-



Environmental Laboratories, Inc.
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RCP Certification Report

August 24, 2020

SDG I.D.: GCG54942

VOA Narration

160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 24.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



FUSS & O'NEILL

(603) 646-2469 • www.FandO.com

- ☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Turnbull, CT 06611
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ 540 North Commercial Street, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 63, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

☐ Other _____

CHAIN-OF-CUSTODY RECORD

44221

☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard _____ (days) *Surcharge Applies

PROJECT NAME

Riverfront/WMBP

PROJECT LOCATION

Hartford + Windsor, CT

PROJECT NUMBER

20170277, A30

LABORATORY

Phoenix

REPORT TO: Don Jahne (Fto)

INVOICE TO:

P.O. NO.:

Sampler's Signature: *[Signature]* Date: 8/17/2008

Source Codes:

MW=Monitoring Well PW=Potable Water T=Treatment Facility B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other _____

Analysis Request

Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VCS	ETPH	PAHS	KRA	RES	RES	SVAS (S&H)	SVAS (FA S&H)	Soil VOA Vial	Soil VOA Vial	Other	Water VOA Vial	Glass Amber	Plastic - As is	Plastic - H ₂ SO ₄	Plastic - HNO ₃	Plastic - NaOH
		1305200817-11	S	8/17/20	1046																	
		-12			1047																	
		-13			1117	X	X	X	X	X			363									
		-14			1137																	
		-15			1138																	
		-16			1227	X	X	X	X	X												
		-17			1230	X	X	X	X	X												
		-18			1330	X	X	X	X	X												
		-19			1335	X	X	X	X	X												
		-20			1353	X	X	X	X	X												

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions:
1	<i>[Signature]</i>	<i>[Signature]</i>	8/17/2008		☐ CT Tax Exempt ☐ QA/QC ☐ Other _____ ____ Duplicates _____ Blanks (Item Nos: _____)
2					Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
3					GBPMCL, ResDEC
4					Additional Comments:



Tuesday, August 25, 2020

Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RIVERFRONT/WINDSOR MEADOWS
SDG ID: GCG55403
Sample ID#s: CG55403, CG55405 - CG55407

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, appearing to read "Phyllis Shiller".

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
UT Lab Registration #CT00007
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 25, 2020

SDG I.D.: GCG55403

Project ID: RIVERFRONT/WINDSOR MEADOWS

Client Id	Lab Id	Matrix
1305200818-25	CG55403	SOIL
1305200818-27	CG55405	SOIL
1305200818-28	CG55406	SOIL
1305200818-29	CG55407	SOIL



Environmental Laboratories, Inc.
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Analysis Report

August 25, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/18/20 9:33
08/18/20 13:23

Time

Laboratory Data

SDG ID: GCG55403
Phoenix ID: CG55403

Project ID: RIVERFRONT/WINDSOR MEADOWS
Client ID: 1305200818-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		08/18/20	JJ	SW846-%Solid
Soil Extraction for Pesticide	Completed				08/19/20	K/N	SW3545A

Pesticides

4,4' -DDD	15	7.6	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDE	25	7.6	ug/Kg	2	08/20/20	CG	SW8081B
4,4' -DDT	86	38	ug/Kg	10	08/20/20	CG	SW8081B
a-BHC	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Alachlor	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Aldrin	ND	3.8	ug/Kg	2	08/20/20	CG	SW8081B
b-BHC	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Chlordane	220	38	ug/Kg	2	08/20/20	CG	SW8081B
d-BHC	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Dieldrin	12	3.8	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Endrin	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	08/20/20	CG	SW8081B
g-BHC	ND	1.5	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor	14	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Heptachlor epoxide	39	7.6	ug/Kg	2	08/20/20	CG	SW8081B
Methoxychlor	ND	38	ug/Kg	2	08/20/20	CG	SW8081B
Toxaphene	ND	150	ug/Kg	2	08/20/20	CG	SW8081B

QA/QC Surrogates

% DCBP	51		%	2	08/20/20	CG	30 - 150 %
% DCBP (Confirmation)	39		%	2	08/20/20	CG	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% TCMX	51		%	2	08/20/20	CG 30 - 150 %
% TCMX (Confirmation)	49		%	2	08/20/20	CG 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:

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

August 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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 25, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/18/20
08/18/20

Time

10:25
13:23

Laboratory Data

SDG ID: GCG55403
Phoenix ID: CG55405

Project ID: RIVERFRONT/WINDSOR MEADOWS
Client ID: 1305200818-27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	08/20/20	CPP	SW6010D
Arsenic	1.60	0.82	mg/Kg	1	08/20/20	CPP	SW6010D
Barium	36.9	0.41	mg/Kg	1	08/20/20	CPP	SW6010D
Cadmium	0.65	0.41	mg/Kg	1	08/20/20	CPP	SW6010D
Chromium	18.3	0.41	mg/Kg	1	08/20/20	CPP	SW6010D
Mercury	< 0.08	0.08	mg/Kg	5	08/20/20	RS	SW7471B
Lead	7.67	0.41	mg/Kg	1	08/20/20	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	08/20/20	CPP	SW6010D
Percent Solid	81		%		08/18/20	JJ	SW846-%Solid
Soil Extraction for PCB	Completed				08/18/20	L/A	SW3545A
Soil Extraction for Pesticide	Completed				08/18/20	L/A	SW3545A
Mercury Digestion	Completed				08/20/20	VT/VT	SW7471B
Extraction of CT ETPH	Completed				08/18/20	G/M	SW3546
Soil Extraction for SVOA PAH	Completed				08/18/20	K/A	SW3546
Total Metals Digest	Completed				08/19/20	AT/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	08/19/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/19/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	87		%	1	08/19/20	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	400	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	08/19/20	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB-1254	ND	400	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	08/19/20	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	08/19/20	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	10	08/19/20	SC	30 - 150 %
% DCBP (Confirmation)	70		%	10	08/19/20	SC	30 - 150 %
% TCMX	69		%	10	08/19/20	SC	30 - 150 %
% TCMX (Confirmation)	69		%	10	08/19/20	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
4,4' -DDE	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
4,4' -DDT	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
a-BHC	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Alachlor	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Aldrin	ND	4.0	ug/Kg	2	08/21/20	CG	SW8081B
b-BHC	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Chlordane	ND	40	ug/Kg	2	08/21/20	CG	SW8081B
d-BHC	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	08/21/20	CG	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Endrin	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
g-BHC	ND	1.6	ug/Kg	2	08/21/20	CG	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	08/21/20	CG	SW8081B
Methoxychlor	ND	40	ug/Kg	2	08/21/20	CG	SW8081B
Toxaphene	ND	160	ug/Kg	2	08/21/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	77		%	2	08/21/20	CG	30 - 150 %
% DCBP (Confirmation)	67		%	2	08/21/20	CG	30 - 150 %
% TCMX	63		%	2	08/21/20	CG	30 - 150 %
% TCMX (Confirmation)	61		%	2	08/21/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	08/19/20	JLI	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	08/19/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
1,2-Dibromoethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
2-Hexanone	ND	25	ug/Kg	1	08/19/20	JLI SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	08/19/20	JLI SW8260
Acetone	ND	250	ug/Kg	1	08/19/20	JLI SW8260
Acrylonitrile	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Benzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Bromobenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Bromochloromethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Bromodichloromethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Bromoform	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Bromomethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Carbon Disulfide	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Chlorobenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Chloroethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Chloroform	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Chloromethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	08/19/20	JLI SW8260
Dibromomethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Ethylbenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Isopropylbenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
m&p-Xylene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	08/19/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	08/19/20	JLI SW8260
Methylene chloride	ND	9.9	ug/Kg	1	08/19/20	JLI SW8260
Naphthalene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
n-Butylbenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
n-Propylbenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
o-Xylene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Styrene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Tetrachloroethene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	08/19/20	JLI SW8260
Toluene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Total Xylenes	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	1	08/19/20	JLI SW8260
Trichloroethene	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
Trichlorotrifluoroethane	ND	9.9	ug/Kg	1	08/19/20	JLI SW8260
Vinyl chloride	ND	4.9	ug/Kg	1	08/19/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	96		%	1	08/19/20	JLI 70 - 130 %
% Bromofluorobenzene	99		%	1	08/19/20	JLI 70 - 130 %
% Dibromofluoromethane	93		%	1	08/19/20	JLI 70 - 130 %
% Toluene-d8	99		%	1	08/19/20	JLI 70 - 130 %
<u>Polynuclear Aromatic HC</u>						
2-Methylnaphthalene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Acenaphthylene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Anthracene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Chrysene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Fluoranthene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Fluorene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Naphthalene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Phenanthrene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
Pyrene	ND	280	ug/Kg	1	08/19/20	WB SW8270D
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	63		%	1	08/19/20	WB 30 - 130 %
% Nitrobenzene-d5	55		%	1	08/19/20	WB 30 - 130 %
% Terphenyl-d14	74		%	1	08/19/20	WB 30 - 130 %
Field Extraction	Completed				08/18/20	SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By

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

August 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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 25, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/18/20
08/18/20

Time

12:00
13:23

Laboratory Data

SDG ID: GCG55403
Phoenix ID: CG55406

Project ID: RIVERFRONT/WINDSOR MEADOWS
Client ID: 1305200818-28

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	08/19/20	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	08/19/20	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	50	08/19/20	JLI	SW8260
1,2-Dibromoethane	ND	100	ug/Kg	50	08/19/20	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,2-Dichloroethane	ND	200	ug/Kg	50	08/19/20	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	08/19/20	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	08/19/20	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	08/19/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acetone	ND	5000	ug/Kg	50	08/19/20	JLI SW8260
Acrylonitrile	ND	100	ug/Kg	50	08/19/20	JLI SW8260
Benzene	ND	200	ug/Kg	50	08/19/20	JLI SW8260
Bromobenzene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Bromochloromethane	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Bromodichloromethane	ND	210	ug/Kg	50	08/19/20	JLI SW8260
Bromoform	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Bromomethane	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Carbon Disulfide	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Chlorobenzene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Chloroethane	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Chloroform	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Chloromethane	ND	250	ug/Kg	50	08/19/20	JLI SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
cis-1,3-Dichloropropene	ND	100	ug/Kg	50	08/19/20	JLI SW8260
Dibromochloromethane	ND	100	ug/Kg	50	08/19/20	JLI SW8260
Dibromomethane	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Ethylbenzene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Isopropylbenzene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
m&p-Xylene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	08/19/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Methylene chloride	ND	500	ug/Kg	50	08/19/20	JLI SW8260
Naphthalene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
n-Butylbenzene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
n-Propylbenzene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
o-Xylene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Styrene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Tetrachloroethene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	08/19/20	JLI SW8260
Toluene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Total Xylenes	ND	250	ug/Kg	50	08/19/20	JLI SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
trans-1,3-Dichloropropene	ND	100	ug/Kg	50	08/19/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	08/19/20	JLI SW8260
Trichloroethene	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	08/19/20	JLI SW8260
Vinyl chloride	ND	250	ug/Kg	50	08/19/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	08/19/20	JLI 70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	08/19/20	JLI 70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	08/19/20	JLI 70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% Toluene-d8 (50x)	97		%	50	08/19/20	JLI 70 - 130 %
Field Extraction	Completed				08/18/20	SW5035A

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

August 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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 25, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277A30

Custody Information

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

Date

08/18/20
08/18/20

Time

12:05
13:23

Laboratory Data

SDG ID: GCG55403
Phoenix ID: CG55407

Project ID: RIVERFRONT/WINDSOR MEADOWS
Client ID: 1305200818-29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	08/19/20	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	08/19/20	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	08/19/20	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	08/19/20	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acetone	ND	250	ug/Kg	1	08/19/20	JLI SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Benzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Bromobenzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Bromoform	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Bromomethane	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Chloroethane	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Chloroform	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Chloromethane	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	08/19/20	JLI SW8260
Dibromomethane	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	08/19/20	JLI SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	08/19/20	JLI SW8260
Methylene chloride	ND	10	ug/Kg	1	08/19/20	JLI SW8260
Naphthalene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
o-Xylene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Styrene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	08/19/20	JLI SW8260
Toluene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Total Xylenes	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	08/19/20	JLI SW8260
Trichloroethene	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	08/19/20	JLI SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	08/19/20	JLI SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	1	08/19/20	JLI 70 - 130 %
% Bromofluorobenzene	101		%	1	08/19/20	JLI 70 - 130 %
% Dibromofluoromethane	92		%	1	08/19/20	JLI 70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% Toluene-d8	99		%	1	08/19/20	JLI 70 - 130 %
Field Extraction	Completed				08/18/20	SW5035A

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

August 25, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



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

QA/QC Report

August 25, 2020

QA/QC Data

SDG I.D.: GCG55403

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 542151 (mg/kg), QC Sample No: CG54867 2X (CG55405)

Mercury - Soil	BRL	0.03	0.05	0.04	NC	97.6	102	4.4	93.5	84.4	10.2	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 542044 (mg/kg), QC Sample No: CG56393 (CG55405)

ICP Metals - Soil

Arsenic	BRL	0.67	<0.71	<0.77	NC	104	105	1.0	109			75 - 125	35
Barium	BRL	0.33	85.8	78.4	9.00	111	113	1.8	122			75 - 125	35
Cadmium	BRL	0.33	0.40	0.51	NC	100	105	4.9	108			75 - 125	35
Chromium	BRL	0.33	16.9	17.2	1.80	106	108	1.9	109			75 - 125	35
Lead	BRL	0.33	10.7	11.8	9.80	100	99.2	0.8	109			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.5	NC	108	108	0.0	111			75 - 125	35
Silver	BRL	0.33	<0.36	<0.39	NC	96.9	99.3	2.4	109			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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QA/QC Report

August 25, 2020

QA/QC Data

SDG I.D.: GCG55403

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 541842 (mg/Kg), QC Sample No: CG55270 (CG55405)										
<u>TPH by GC (Extractable Products) - Soil</u>										
Ext. Petroleum H.C. (C9-C36)	ND	50	78	78	0.0	69	64	7.5	60 - 120	30
% n-Pentacosane	61	%	103	102	1.0	71	74	4.1	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 541834 (ug/Kg), QC Sample No: CG55700 2X (CG55405)										
<u>Polychlorinated Biphenyls - Soil</u>										
PCB-1016	ND	33	78	74	5.3	61	68	10.9	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	80	76	5.1	57	65	13.1	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	74	%	87	83	4.7	63	71	11.9	30 - 150	30
% DCBP (Surrogate Rec) (Confirm	72	%	90	89	1.1	65	71	8.8	30 - 150	30
% TCMX (Surrogate Rec)	73	%	88	83	5.8	62	72	14.9	30 - 150	30
% TCMX (Surrogate Rec) (Confirm	80	%	101	94	7.2	68	75	9.8	30 - 150	30
QA/QC Batch 541838 (ug/Kg), QC Sample No: CG55700 2X (CG55405)										
<u>Pesticides - Soil</u>										
4,4' -DDD	ND	1.7	73	57	24.6	63	73	14.7	40 - 140	30
4,4' -DDE	ND	1.7	71	56	23.6	71	92	25.8	40 - 140	30
4,4' -DDT	ND	1.7	64	52	20.7	70	80	13.3	40 - 140	30
a-BHC	ND	1.0	62	53	15.7	55	61	10.3	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	64	53	18.8	42	65	43.0	40 - 140	30
b-BHC	ND	1.0	83	72	14.2	64	80	22.2	40 - 140	30
Chlordane	ND	33	64	53	18.8	52	59	12.6	40 - 140	30
d-BHC	ND	3.3	66	54	20.0	52	67	25.2	40 - 140	30
Dieldrin	ND	1.0	63	50	23.0	53	60	12.4	40 - 140	30
Endosulfan I	ND	3.3	61	52	15.9	48	50	4.1	40 - 140	30
Endosulfan II	ND	3.3	65	52	22.2	52	55	5.6	40 - 140	30
Endosulfan sulfate	ND	3.3	77	62	21.6	58	67	14.4	40 - 140	30
Endrin	ND	3.3	65	52	22.2	63	89	34.2	40 - 140	30
Endrin aldehyde	ND	3.3	68	57	17.6	75	95	23.5	40 - 140	30
Endrin ketone	ND	3.3	72	56	25.0	56	64	13.3	40 - 140	30
g-BHC	ND	1.0	64	55	15.1	49	55	11.5	40 - 140	30
Heptachlor	ND	3.3	63	55	13.6	49	66	29.6	40 - 140	30

QA/QC Data

SDG I.D.: GCG55403

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Heptachlor epoxide	ND	3.3	65	55	16.7	51	60	16.2	40 - 140	30
Methoxychlor	ND	3.3	70	53	27.6	66	74	11.4	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	88	%	88	79	10.8	70	81	14.6	30 - 150	30
% DCBP (Confirmation)	90	%	87	78	10.9	69	72	4.3	30 - 150	30
% TCMX	74	%	71	67	5.8	63	69	9.1	30 - 150	30
% TCMX (Confirmation)	75	%	73	69	5.6	61	63	3.2	30 - 150	30

QA/QC Batch 542029 (ug/Kg), QC Sample No: CG56730 2X (CG55403)

Pesticides - Soil

4,4' -DDD	ND	1.7	64	70	9.0	88	88	0.0	40 - 140	30
4,4' -DDE	ND	1.7	56	68	19.4	90	88	2.2	40 - 140	30
4,4' -DDT	ND	1.7	60	67	11.0	88	87	1.1	40 - 140	30
a-BHC	ND	1.0	56	61	8.5	84	88	4.7	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	58	66	12.9	87	89	2.3	40 - 140	30
b-BHC	ND	1.0	64	74	14.5	96	98	2.1	40 - 140	30
Chlordane	ND	33	59	66	11.2	90	89	1.1	40 - 140	30
d-BHC	ND	3.3	56	65	14.9	86	86	0.0	40 - 140	30
Dieldrin	ND	1.0	58	66	12.9	88	87	1.1	40 - 140	30
Endosulfan I	ND	3.3	61	65	6.3	92	92	0.0	40 - 140	30
Endosulfan II	ND	3.3	64	69	7.5	90	88	2.2	40 - 140	30
Endosulfan sulfate	ND	3.3	72	79	9.3	99	98	1.0	40 - 140	30
Endrin	ND	3.3	60	66	9.5	93	90	3.3	40 - 140	30
Endrin aldehyde	ND	3.3	63	69	9.1	97	96	1.0	40 - 140	30
Endrin ketone	ND	3.3	63	72	13.3	94	91	3.2	40 - 140	30
g-BHC	ND	1.0	57	63	10.0	85	87	2.3	40 - 140	30
Heptachlor	ND	3.3	58	64	9.8	86	87	1.2	40 - 140	30
Heptachlor epoxide	ND	3.3	58	64	9.8	88	88	0.0	40 - 140	30
Methoxychlor	ND	3.3	63	68	7.6	90	88	2.2	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	84	%	74	82	10.3	111	105	5.6	30 - 150	30
% DCBP (Confirmation)	87	%	79	87	9.6	108	106	1.9	30 - 150	30
% TCMX	70	%	67	68	1.5	99	106	6.8	30 - 150	30
% TCMX (Confirmation)	71	%	67	69	2.9	98	104	5.9	30 - 150	30

QA/QC Batch 541844 (ug/kg), QC Sample No: CG55270 (CG55405)

Semivolatiles - Soil

2-Methylnaphthalene	ND	230	75	76	1.3	68	80	16.2	40 - 140	30
Acenaphthene	ND	230	81	82	1.2	64	81	23.4	30 - 130	30
Acenaphthylene	ND	130	77	79	2.6	58	77	28.1	40 - 140	30
Anthracene	ND	230	78	80	2.5	64	82	24.7	40 - 140	30
Benz(a)anthracene	ND	230	79	80	1.3	58	76	26.9	40 - 140	30
Benzo(a)pyrene	ND	130	74	75	1.3	51	67	27.1	40 - 140	30
Benzo(b)fluoranthene	ND	160	88	90	2.2	66	83	22.8	40 - 140	30
Benzo(ghi)perylene	ND	230	75	76	1.3	50	65	26.1	40 - 140	30
Benzo(k)fluoranthene	ND	230	56	56	0.0	39	55	34.0	40 - 140	30
Chrysene	ND	230	79	81	2.5	60	78	26.1	40 - 140	30
Dibenz(a,h)anthracene	ND	130	76	75	1.3	57	71	21.9	40 - 140	30
Fluoranthene	ND	230	78	79	1.3	57	77	29.9	40 - 140	30
Fluorene	ND	230	77	78	1.3	63	78	21.3	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	72	73	1.4	48	63	27.0	40 - 140	30
Naphthalene	ND	230	74	75	1.3	66	75	12.8	40 - 140	30
Phenanthrene	ND	130	78	80	2.5	62	84	30.1	40 - 140	30

QA/QC Data

SDG I.D.: GCG55403

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Pyrene	ND	230	78	81	3.8	60	78	26.1	30 - 130	30
% 2-Fluorobiphenyl	75	%	70	73	4.2	55	69	22.6	30 - 130	30
% Nitrobenzene-d5	67	%	67	70	4.4	59	70	17.1	30 - 130	30
% Terphenyl-d14	79	%	80	81	1.2	65	78	18.2	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 542186 (ug/kg), QC Sample No: CG56217 (CG55405, CG55407)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	92	109	16.9	100	105	4.9	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	89	105	16.5	99	98	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	88	104	16.7	114	119	4.3	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	90	106	16.3	90	92	2.2	70 - 130	30	
1,1-Dichloroethane	ND	5.0	89	106	17.4	100	98	2.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	87	105	18.8	96	95	1.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	89	104	15.5	96	99	3.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	91	110	18.9	42	44	4.7	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	83	99	17.6	114	117	2.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	88	107	19.5	44	48	8.7	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	84	102	19.4	106	112	5.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	87	108	21.5	93	96	3.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	90	106	16.3	94	97	3.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	84	102	19.4	75	80	6.5	70 - 130	30	
1,2-Dichloroethane	ND	5.0	94	109	14.8	100	102	2.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	90	107	17.3	99	102	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	85	104	20.1	112	120	6.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	86	102	17.0	77	84	8.7	70 - 130	30	
1,3-Dichloropropane	ND	5.0	91	105	14.3	100	102	2.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	85	101	17.2	74	80	7.8	70 - 130	30	
2,2-Dichloropropane	ND	5.0	92	111	18.7	99	96	3.1	70 - 130	30	
2-Chlorotoluene	ND	5.0	83	100	18.6	103	112	8.4	70 - 130	30	
2-Hexanone	ND	25	73	83	12.8	21	24	13.3	70 - 130	30	m
2-Isopropyltoluene	ND	5.0	86	103	18.0	111	118	6.1	70 - 130	30	
4-Chlorotoluene	ND	5.0	82	100	19.8	93	100	7.3	70 - 130	30	
4-Methyl-2-pentanone	ND	25	80	95	17.1	48	49	2.1	70 - 130	30	m
Acetone	ND	10	65	76	15.6	61	60	1.7	70 - 130	30	l,m
Acrylonitrile	ND	5.0	85	101	17.2	77	76	1.3	70 - 130	30	
Benzene	ND	1.0	90	105	15.4	96	101	5.1	70 - 130	30	
Bromobenzene	ND	5.0	85	101	17.2	96	101	5.1	70 - 130	30	
Bromochloromethane	ND	5.0	88	104	16.7	95	93	2.1	70 - 130	30	
Bromodichloromethane	ND	5.0	96	113	16.3	99	101	2.0	70 - 130	30	
Bromoform	ND	5.0	93	110	16.7	81	84	3.6	70 - 130	30	
Bromomethane	ND	5.0	87	109	22.4	90	88	2.2	70 - 130	30	
Carbon Disulfide	ND	5.0	89	106	17.4	91	90	1.1	70 - 130	30	
Carbon tetrachloride	ND	5.0	90	110	20.0	98	96	2.1	70 - 130	30	
Chlorobenzene	ND	5.0	86	103	18.0	87	91	4.5	70 - 130	30	
Chloroethane	ND	5.0	92	109	16.9	107	103	3.8	70 - 130	30	
Chloroform	ND	5.0	88	103	15.7	97	94	3.1	70 - 130	30	
Chloromethane	ND	5.0	83	96	14.5	88	84	4.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	84	98	15.4	90	89	1.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	97	114	16.1	85	89	4.6	70 - 130	30	
Dibromochloromethane	ND	3.0	98	117	17.7	102	104	1.9	70 - 130	30	

QA/QC Data

SDG I.D.: GCG55403

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibromomethane	ND	5.0	89	107	18.4	94	95	1.1	70 - 130	30
Dichlorodifluoromethane	ND	5.0	99	114	14.1	103	98	5.0	70 - 130	30
Ethylbenzene	ND	1.0	86	102	17.0	97	98	1.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	88	107	19.5	64	70	9.0	70 - 130	30 m
Isopropylbenzene	ND	1.0	85	102	18.2	125	132	5.4	70 - 130	30 m
m&p-Xylene	ND	2.0	87	102	15.9	92	95	3.2	70 - 130	30
Methyl ethyl ketone	ND	5.0	73	85	15.2	54	50	7.7	70 - 130	30 m
Methyl t-butyl ether (MTBE)	ND	1.0	87	97	10.9	102	98	4.0	70 - 130	30
Methylene chloride	ND	5.0	83	97	15.6	97	94	3.1	70 - 130	30
Naphthalene	ND	5.0	98	120	20.2	70	67	4.4	70 - 130	30 m
n-Butylbenzene	ND	1.0	88	105	17.6	93	97	4.2	70 - 130	30
n-Propylbenzene	ND	1.0	85	103	19.1	116	123	5.9	70 - 130	30
o-Xylene	ND	2.0	91	106	15.2	96	100	4.1	70 - 130	30
p-Isopropyltoluene	ND	1.0	88	106	18.6	112	119	6.1	70 - 130	30
sec-Butylbenzene	ND	1.0	92	110	17.8	120	127	5.7	70 - 130	30
Styrene	ND	5.0	89	105	16.5	75	79	5.2	70 - 130	30
tert-Butylbenzene	ND	1.0	85	102	18.2	120	128	6.5	70 - 130	30
Tetrachloroethene	ND	5.0	89	104	15.5	90	92	2.2	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	80	96	18.2	92	86	6.7	70 - 130	30
Toluene	ND	1.0	89	105	16.5	90	93	3.3	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	92	108	16.0	98	97	1.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	95	115	19.0	84	87	3.5	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	102	126	21.1	97	102	5.0	70 - 130	30
Trichloroethene	ND	5.0	87	104	17.8	92	94	2.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	86	101	16.0	96	94	2.1	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	81	98	19.0	93	89	4.4	70 - 130	30
Vinyl chloride	ND	5.0	92	108	16.0	101	98	3.0	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	98	101	3.0	96	98	2.1	70 - 130	30
% Bromofluorobenzene	101	%	105	103	1.9	91	91	0.0	70 - 130	30
% Dibromofluoromethane	98	%	100	102	2.0	103	97	6.0	70 - 130	30
% Toluene-d8	99	%	102	101	1.0	99	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 542186H (ug/kg), QC Sample No: CG56217 50X (CG55406 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	107	108	0.9	95	99	4.1	70 - 130	30
1,1,1-Trichloroethane	ND	250	98	99	1.0	92	93	1.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	250	100	103	3.0	77	94	19.9	70 - 130	30
1,1,2-Trichloroethane	ND	250	103	103	0.0	94	95	1.1	70 - 130	30
1,1-Dichloroethane	ND	250	101	100	1.0	92	93	1.1	70 - 130	30
1,1-Dichloroethene	ND	250	96	95	1.0	91	90	1.1	70 - 130	30
1,1-Dichloropropene	ND	250	104	105	1.0	96	100	4.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	250	111	113	1.8	84	101	18.4	70 - 130	30
1,2,3-Trichloropropane	ND	250	94	98	4.2	74	91	20.6	70 - 130	30
1,2,4-Trichlorobenzene	ND	250	113	112	0.9	80	100	22.2	70 - 130	30
1,2,4-Trimethylbenzene	ND	250	104	104	0.0	80	97	19.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	250	97	101	4.0	77	100	26.0	70 - 130	30
1,2-Dibromoethane	ND	250	103	104	1.0	93	96	3.2	70 - 130	30
1,2-Dichlorobenzene	ND	250	103	104	1.0	78	94	18.6	70 - 130	30
1,2-Dichloroethane	ND	250	105	108	2.8	96	98	2.1	70 - 130	30
1,2-Dichloropropane	ND	250	105	108	2.8	95	100	5.1	70 - 130	30

QA/QC Data

SDG I.D.: GCG55403

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3,5-Trimethylbenzene	ND	250	104	106	1.9	82	99	18.8	70 - 130	30	
1,3-Dichlorobenzene	ND	250	105	106	0.9	77	95	20.9	70 - 130	30	
1,3-Dichloropropane	ND	250	104	106	1.9	96	97	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	250	103	104	1.0	76	94	21.2	70 - 130	30	
2,2-Dichloropropane	ND	250	106	105	0.9	90	94	4.3	70 - 130	30	
2-Chlorotoluene	ND	250	102	102	0.0	80	95	17.1	70 - 130	30	
2-Hexanone	ND	1300	78	79	1.3	77	74	4.0	70 - 130	30	
2-Isopropyltoluene	ND	250	106	105	0.9	82	99	18.8	70 - 130	30	
4-Chlorotoluene	ND	250	104	103	1.0	77	94	19.9	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	86	89	3.4	84	83	1.2	70 - 130	30	
Acetone	ND	500	58	58	0.0	59	53	10.7	70 - 130	30	I,m
Acrylonitrile	ND	250	93	99	6.3	92	87	5.6	70 - 130	30	
Benzene	ND	250	104	106	1.9	96	99	3.1	70 - 130	30	
Bromobenzene	ND	250	102	102	0.0	128	99	25.6	70 - 130	30	
Bromochloromethane	ND	250	95	98	3.1	87	90	3.4	70 - 130	30	
Bromodichloromethane	ND	250	107	110	2.8	93	97	4.2	70 - 130	30	
Bromoform	ND	250	102	104	1.9	84	89	5.8	70 - 130	30	
Bromomethane	ND	250	77	81	5.1	59	71	18.5	70 - 130	30	m
Carbon Disulfide	ND	250	96	95	1.0	84	86	2.4	70 - 130	30	
Carbon tetrachloride	ND	250	102	102	0.0	92	94	2.2	70 - 130	30	
Chlorobenzene	ND	250	105	104	1.0	94	97	3.1	70 - 130	30	
Chloroethane	ND	250	22	22	0.0	22	22	0.0	70 - 130	30	I,m
Chloroform	ND	250	99	99	0.0	92	91	1.1	70 - 130	30	
Chloromethane	ND	250	90	90	0.0	82	83	1.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	250	94	95	1.1	87	87	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	250	110	110	0.0	94	98	4.2	70 - 130	30	
Dibromochloromethane	ND	150	112	115	2.6	98	100	2.0	70 - 130	30	
Dibromomethane	ND	250	99	103	4.0	92	93	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	250	105	105	0.0	100	99	1.0	70 - 130	30	
Ethylbenzene	ND	250	105	106	0.9	97	98	1.0	70 - 130	30	
Hexachlorobutadiene	ND	250	113	114	0.9	85	105	21.1	70 - 130	30	
Isopropylbenzene	ND	250	103	104	1.0	82	97	16.8	70 - 130	30	
m&p-Xylene	ND	250	105	106	0.9	96	99	3.1	70 - 130	30	
Methyl ethyl ketone	ND	250	78	79	1.3	79	71	10.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	250	90	89	1.1	93	90	3.3	70 - 130	30	
Methylene chloride	ND	250	91	91	0.0	90	88	2.2	70 - 130	30	
Naphthalene	ND	250	115	117	1.7	101	113	11.2	70 - 130	30	
n-Butylbenzene	ND	250	110	110	0.0	84	102	19.4	70 - 130	30	
n-Propylbenzene	ND	250	105	106	0.9	83	99	17.6	70 - 130	30	
o-Xylene	ND	250	108	110	1.8	99	101	2.0	70 - 130	30	
p-Isopropyltoluene	ND	250	109	109	0.0	83	102	20.5	70 - 130	30	
sec-Butylbenzene	ND	250	112	114	1.8	88	107	19.5	70 - 130	30	
Styrene	ND	250	107	109	1.9	98	99	1.0	70 - 130	30	
tert-Butylbenzene	ND	250	104	105	1.0	82	99	18.8	70 - 130	30	
Tetrachloroethene	ND	250	107	109	1.9	96	103	7.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	250	90	90	0.0	88	83	5.8	70 - 130	30	
Toluene	ND	250	104	107	2.8	95	100	5.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	250	101	101	0.0	95	95	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	250	109	112	2.7	92	97	5.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	250	116	120	3.4	81	100	21.0	70 - 130	30	
Trichloroethene	ND	250	102	103	1.0	93	99	6.3	70 - 130	30	
Trichlorofluoromethane	ND	250	22	22	0.0	22	28	24.0	70 - 130	30	I,m
Trichlorotrifluoroethane	ND	250	93	91	2.2	87	88	1.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCG55403

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Vinyl chloride	ND	250	99	98	1.0	96	94	2.1	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	100	1.0	86	99	14.1	70 - 130	30
% Bromofluorobenzene	100	%	102	104	1.9	106	103	2.9	70 - 130	30
% Dibromofluoromethane	91	%	97	97	0.0	97	95	2.1	70 - 130	30
% Toluene-d8	98	%	101	101	0.0	100	101	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

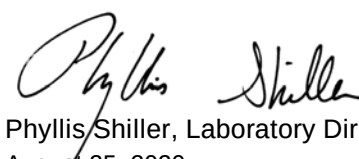
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
August 25, 2020

Tuesday, August 25, 2020

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GCG55403 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG55403	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	220	38	66	66	ug/Kg
CG55403	\$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	86	38	20	20	ug/Kg
CG55403	\$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	25	7.6	20	20	ug/Kg
CG55403	\$PEST_SMR	Heptachlor epoxide	CT / RSR GB (mg/kg) / Pesticides/TPH	39	7.6	20	20	ug/Kg
CG55403	\$PEST_SMR	Heptachlor	CT / RSR GB (mg/kg) / Pesticides/TPH	14	7.6	13	13	ug/Kg
CG55403	\$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	12	3.8	7	7	ug/Kg
CG55403	\$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	220	38	66	66	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: Fuss & O'Neill, Inc.

Project Location: RIVERFRONT/WINDSOR MEADOWS

Project Number:

Laboratory Sample ID(s): CG55403,
CG55405-CG55407

Sampling Date(s): 8/18/2020

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?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ 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)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☐ Yes ☒ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Section: VOA Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ 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?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☒ 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: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Tuesday, August 25, 2020

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

August 25, 2020

SDG I.D.: GCG55403

SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are 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? Yes.

Instrument:

AU-FID21 08/17/20-1

Jeff Bucko, Chemist 08/17/20

CG55405 (1X)

The initial calibration (ETPH625I) 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) 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 541842 (CG55270)

CG55405

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 08/20/20 08:09

Rick Schweitzer, Chemist 08/20/20

CG55405

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.



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Certification Report

August 25, 2020

SDG I.D.: GCG55403

Mercury Narration

QC (Batch Specific):

Batch 542151 (CG54867)

CG55405

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 08/20/20 10:32

Cindy Pearce, Chemist 08/20/20

CG55405

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 542044 (CG56393)

CG55405

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-ECD24 08/19/20-1

Saadia Chudary, Chemist 08/19/20

CG55405 (10X)

The initial calibration (PC723AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC723BI) 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 541834 (CG55700)

CG55405

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.



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RCP Certification Report

August 25, 2020

SDG I.D.: GCG55403

PCB Narration

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 08/20/20-1

Chelsey Guerette, Chemist 08/20/20

CG55403 (2X, 10X)

The initial calibration (PS0818AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0818BI) 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: CG55403

Preceding CC 820A004 - None.

Succeeding CC 820A027 - b-BHC 27%H (20%), Endrin -24%L (20%), Methoxychlor -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.

AU-ECD7 08/20/20-2

Chelsey Guerette, Chemist 08/20/20

CG55405 (2X)

The initial calibration (PS0820AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0820BI) 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: CG55405

Preceding CC 820A065 - Endrin aldehyde 22%H (20%)

Succeeding CC 820A086 - Endrin aldehyde 25%H (20%)

QC (Batch Specific):

Batch 541838 (CG55700)

CG55405

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 542029 (CG56730)

CG55403

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? Yes.



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RCP Certification Report

August 25, 2020

SDG I.D.: GCG55403

SVOA Narration

Instrument:

CHEM29 08/18/20-2

Wes Bryon, Chemist 08/18/20

CG55405 (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_0804):

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 (CHEM29/0818_14-29_SPLIT_0804):

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 541844 (CG55270)

CG55405

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 542186 (Samples: CG55405, CG55407): -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone)

QC Batch 542186H: -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone, Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM18 08/19/20-1

Jane Li, Chemist 08/19/20

CG55405 (1X), CG55406 (50X), CG55407 (1X)

Initial Calibration Evaluation (CHEM18/VT-M081320):



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RCP Certification Report

August 25, 2020

SDG I.D.: GCG55403

VOA Narration

96% of target compounds met criteria.

The following compounds had %RSDs >20%: trans-1,4-dichloro-2-butene 29% (20%), Bromoform 24% (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 (CHEM18/0819M01-VT-M081320):

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 542186 (CG56217)

CHEM18 8/19/2020-1

CG55405(1X), CG55407(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(65%)

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 542186H (CG56217)

CHEM18 8/19/2020-1

CG55406(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(58%), Chloroethane(22%),

Trichlorofluoromethane(22%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(58%), Chloroethane(22%),

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.

Temperature Narration

The samples were received at 8.2C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



FUSS & O'NEILL

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☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ 540 North Commercial Street, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

8.2°C Re/consol

CHAIN-OF-CUSTODY RECORD 44223

PROJECT NAME

RIVERFRONT WINDSOR MEADOWS

PROJECT LOCATION

HARTFORD - WINDSOR, CT

PROJECT NUMBER

20170717-A30

LABORATORY

PHENIX

REPORT TO:

DAN JAHNE & BRIANNA CHURCH (FEO)

Analysis Request

INVOICE TO:



Containers

P.O. No.:

Sampler's Signature:

[Signature]

Date: 8/12/20

Source Codes:

MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment

SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other TRIP BLANK

Transfer Check

Item No. 1 2 3 4

Sample Number

Date Sampled

Source Code

Time Sampled

01 1805200818-25 S 8/12/20 0933

02 -26* ↓ 0935

03 -27 ↓ 1025

04 -28 X ↓ 1200

05 -29 X ↓ 1205

Soil VOA Val. (Heptanol) (3) or (4) Na(SO)₂

Glass VOA Val. (Heptanol) (3) or (4) Na(SO)₂

Other

Water VOA Val. (As is) (HCl)

Glass Amber () ml. As is (HCl)

Plastic - As is (HCl)

Plastic - HNO₃ (250 ml) (HCl)

Plastic - HNO₃ (250 ml) (HCl)

Plastic - NaOH (250 ml) (HCl)

Comments

55403

1

1

121

1

2

55405

55406

55407

HOLD 55404

Transfer Number

Relinquished By

Accepted By

Date

Time

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other (Item Nos. _____)

Reporting and Detection Limit Requirements: ☒ DRCP Deliverables ☐ MCP CAM Cert.

Additional Comments:

Place on hold per Brianna

8/12/20 1313

8/12/20 1313

8/12/20 1313

8/12/20 1313

8/12/20 1313

8/12/20 1313

8/12/20 1313

8/12/20 1313



Tuesday, September 08, 2020

Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
SDG ID: GCG62894
Sample ID#s: CG62894 - CG62902

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, appearing to read "Phyllis Shiller".

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
UT Lab Registration #CT00007
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

September 08, 2020

SDG I.D.: GCG62894

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.



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Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

September 08, 2020

SDG I.D.: GCG62894

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK

Client Id	Lab Id	Matrix
1305200826-01	CG62894	GROUND WATER
1305200826-02	CG62895	GROUND WATER
1305200826-03	CG62896	GROUND WATER
1305200826-04	CG62897	GROUND WATER
1305200826-05	CG62898	GROUND WATER
1305200826-06	CG62899	GROUND WATER
1305200826-07	CG62900	GROUND WATER
1305200826-08	CG62901	GROUND WATER
1305200826-09	CG62902	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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

10:27
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62894

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/28/20	EK	SW6010D
Barium	0.120	0.002	mg/L	1	08/28/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Chromium	0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	08/27/20	MGH	SW7470A
Lead	< 0.002	0.002	mg/L	1	08/28/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	08/28/20	EK	SW6010D
Extraction of CT ETPH	Completed				08/27/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				08/27/20	VT/AW	SW7470A
Extraction for Pest (LDL)	Completed				08/31/20	C	SW3510C
Semi-Volatile Extraction	Completed				08/27/20	P/AK	SW3520C
Total Metals Digestion	Completed				08/27/20	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.071	mg/L	1	08/31/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/31/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	94		%	1	08/31/20	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
a-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Alachlor	ND	0.075	ug/L	1	09/02/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	09/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Chlordane	ND	0.30	ug/L	1	09/02/20	CG	SW8081B
d-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Dieldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
Endosulfan I	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endosulfan II	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endrin	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endrin Aldehyde	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endrin ketone	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Methoxychlor	ND	0.10	ug/L	1	09/02/20	CG	SW8081B
Toxaphene	ND	1.0	ug/L	1	09/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	114		%	1	09/02/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	67		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	75		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	63		%	1	09/02/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Acetone	ND	25	ug/L	1	08/27/20	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	08/27/20	MH	70 - 130 %
% Bromofluorobenzene	90		%	1	08/27/20	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	08/27/20	MH	70 - 130 %
% Toluene-d8	102		%	1	08/27/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.50	ug/L	1	08/28/20	WB	SW8270D (SIM)

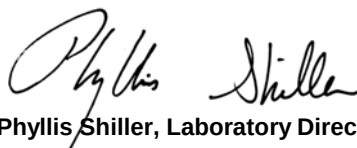
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acenaphthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	08/28/20	WB SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	45		%	1	08/28/20	WB 30 - 130 %
% Nitrobenzene-d5	44		%	1	08/28/20	WB 30 - 130 %
% Terphenyl-d14	83		%	1	08/28/20	WB 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

September 08, 2020

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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

10:42
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62895

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/28/20	EK	SW6010D
Barium	0.116	0.002	mg/L	1	08/28/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Chromium	0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	08/27/20	MGH	SW7470A
Lead	< 0.002	0.002	mg/L	1	08/28/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	08/28/20	EK	SW6010D
Extraction of CT ETPH	Completed				08/27/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				08/27/20	VT/AW	SW7470A
Extraction for Pest (LDL)	Completed				08/31/20	C	SW3510C
Semi-Volatile Extraction	Completed				08/27/20	P/AK	SW3520C
Total Metals Digestion	Completed				08/27/20	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.070	mg/L	1	08/31/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/31/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	97		%	1	08/31/20	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDT	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
a-BHC	ND	0.026	ug/L	1	09/02/20	CG	SW8081B
Alachlor	ND	0.077	ug/L	1	09/02/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	09/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Chlordane	ND	0.020	ug/L	1	09/02/20	CG	SW8081B
d-BHC	ND	0.026	ug/L	1	09/02/20	CG	SW8081B
Dieldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
Endosulfan I	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endosulfan II	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin ketone	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	09/02/20	CG	SW8081B
Heptachlor	ND	0.026	ug/L	1	09/02/20	CG	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	09/02/20	CG	SW8081B
Methoxychlor	ND	0.10	ug/L	1	09/02/20	CG	SW8081B
Toxaphene	ND	0.20	ug/L	1	09/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	122		%	1	09/02/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	78		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	93		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	69		%	1	09/02/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Acetone	ND	25	ug/L	1	08/27/20	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	08/27/20	MH	70 - 130 %
% Bromofluorobenzene	89		%	1	08/27/20	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	08/27/20	MH	70 - 130 %
% Toluene-d8	101		%	1	08/27/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.50	ug/L	1	08/28/20	WB	SW8270D (SIM)

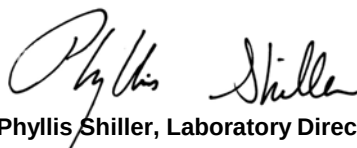
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acenaphthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	08/28/20	WB SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	44		%	1	08/28/20	WB 30 - 130 %
% Nitrobenzene-d5	41		%	1	08/28/20	WB 30 - 130 %
% Terphenyl-d14	83		%	1	08/28/20	WB 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

September 08, 2020

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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

11:47
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62896

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/28/20	EK	SW6010D
Barium	0.062	0.002	mg/L	1	08/28/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Chromium	0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	08/27/20	MGH	SW7470A
Lead	< 0.002	0.002	mg/L	1	08/28/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	08/28/20	EK	SW6010D
Extraction of CT ETPH	Completed				08/27/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				08/27/20	VT/AW	SW7470A
Extraction for Pest (LDL)	Completed				08/31/20	C	SW3510C
Semi-Volatile Extraction	Completed				08/27/20	P/AK	SW3520C
Total Metals Digestion	Completed				08/27/20	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.073	mg/L	1	08/31/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/31/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	100		%	1	08/31/20	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDT	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
a-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Alachlor	ND	0.076	ug/L	1	09/02/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	09/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Chlordane	ND	0.020	ug/L	1	09/02/20	CG	SW8081B
d-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Dieldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
Endosulfan I	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endosulfan II	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin ketone	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Methoxychlor	ND	0.10	ug/L	1	09/02/20	CG	SW8081B
Toxaphene	ND	0.20	ug/L	1	09/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	81		%	1	09/02/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	52		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	69		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	57		%	1	09/02/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Acetone	ND	25	ug/L	1	08/27/20	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	08/27/20	MH	70 - 130 %
% Bromofluorobenzene	92		%	1	08/27/20	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	08/27/20	MH	70 - 130 %
% Toluene-d8	102		%	1	08/27/20	MH	70 - 130 %
Client MS/MSD	Completed				08/31/20		

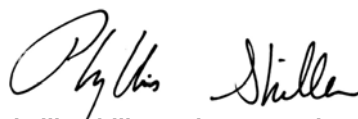
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
<u>Semivolatiles by SIM, PAH</u>						
2-Methylnaphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	08/28/20	WB SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	53		%	1	08/28/20	WB 30 - 130 %
% Nitrobenzene-d5	67		%	1	08/28/20	WB 30 - 130 %
% Terphenyl-d14	79		%	1	08/28/20	WB 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

September 08, 2020

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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

13:56
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62897

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/28/20	EK	SW6010D
Barium	0.017	0.002	mg/L	1	08/28/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Chromium	0.002	0.001	mg/L	1	08/28/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	08/27/20	MGH	SW7470A
Lead	< 0.002	0.002	mg/L	1	08/28/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	08/28/20	EK	SW6010D
Extraction of CT ETPH	Completed				08/27/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				08/27/20	VT/AW	SW7470A
Extraction for Pest (LDL)	Completed				08/31/20	C	SW3510C
Semi-Volatile Extraction	Completed				08/27/20	P/AK	SW3520C
Total Metals Digestion	Completed				08/27/20	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.074	mg/L	1	08/28/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/28/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	50		%	1	08/28/20	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDT	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
a-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Alachlor	ND	0.076	ug/L	1	09/02/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	09/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Chlordane	ND	0.020	ug/L	1	09/02/20	CG	SW8081B
d-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Dieldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
Endosulfan I	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endosulfan II	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin ketone	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Methoxychlor	ND	0.10	ug/L	1	09/02/20	CG	SW8081B
Toxaphene	ND	0.20	ug/L	1	09/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	113		%	1	09/02/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	82		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	96		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	83		%	1	09/02/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Acetone	ND	25	ug/L	1	08/27/20	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	08/27/20	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	08/27/20	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	08/27/20	MH	70 - 130 %
% Toluene-d8	102		%	1	08/27/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.50	ug/L	1	08/28/20	WB	SW8270D (SIM)

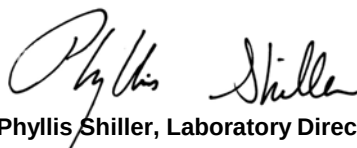
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acenaphthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	08/28/20	WB SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	56		%	1	08/28/20	WB 30 - 130 %
% Nitrobenzene-d5	79		%	1	08/28/20	WB 30 - 130 %
% Terphenyl-d14	79		%	1	08/28/20	WB 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

September 08, 2020

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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

15:06
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62898

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/28/20	EK	SW6010D
Barium	0.015	0.002	mg/L	1	08/28/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Chromium	0.003	0.001	mg/L	1	08/28/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	08/27/20	MGH	SW7470A
Lead	< 0.002	0.002	mg/L	1	08/28/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	08/28/20	EK	SW6010D
Extraction of CT ETPH	Completed				08/27/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				08/27/20	VT/AW	SW7470A
Extraction for Pest (LDL)	Completed				08/31/20	C	SW3510C
Semi-Volatile Extraction	Completed				08/27/20	P/AK	SW3520C
Total Metals Digestion	Completed				08/27/20	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.076	mg/L	1	08/28/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/28/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	51		%	1	08/28/20	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDT	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
a-BHC	ND	0.026	ug/L	1	09/02/20	CG	SW8081B
Alachlor	ND	0.077	ug/L	1	09/02/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	09/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Chlordane	ND	0.021	ug/L	1	09/02/20	CG SW8081B
d-BHC	ND	0.026	ug/L	1	09/02/20	CG SW8081B
Dieldrin	ND	0.002	ug/L	1	09/02/20	CG SW8081B
Endosulfan I	ND	0.052	ug/L	1	09/02/20	CG SW8081B
Endosulfan II	ND	0.052	ug/L	1	09/02/20	CG SW8081B
Endosulfan Sulfate	ND	0.052	ug/L	1	09/02/20	CG SW8081B
Endrin	ND	0.052	ug/L	1	09/02/20	CG SW8081B
Endrin Aldehyde	ND	0.052	ug/L	1	09/02/20	CG SW8081B
Endrin ketone	ND	0.052	ug/L	1	09/02/20	CG SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	09/02/20	CG SW8081B
Heptachlor	ND	0.026	ug/L	1	09/02/20	CG SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	09/02/20	CG SW8081B
Methoxychlor	ND	0.10	ug/L	1	09/02/20	CG SW8081B
Toxaphene	ND	0.21	ug/L	1	09/02/20	CG SW8081B
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	98		%	1	09/02/20	CG 30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	59		%	1	09/02/20	CG 30 - 150 %
%TCMX (Surrogate Rec)	86		%	1	09/02/20	CG 30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	110		%	1	09/02/20	CG 30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH SW8260
Acetone	ND	25	ug/L	1	08/27/20	MH SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	100		%	1	08/27/20	MH	70 - 130 %
% Bromofluorobenzene	91		%	1	08/27/20	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	08/27/20	MH	70 - 130 %
% Toluene-d8	102		%	1	08/27/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.50	ug/L	1	08/28/20	WB	SW8270D (SIM)

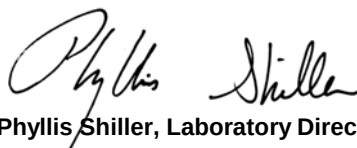
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acenaphthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	08/28/20	WB SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	49		%	1	08/28/20	WB 30 - 130 %
% Nitrobenzene-d5	59		%	1	08/28/20	WB 30 - 130 %
% Terphenyl-d14	79		%	1	08/28/20	WB 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

September 08, 2020

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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

16:01
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62899

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/28/20	EK	SW6010D
Barium	0.032	0.002	mg/L	1	08/28/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Chromium	0.003	0.001	mg/L	1	08/28/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	08/27/20	MGH	SW7470A
Lead	< 0.002	0.002	mg/L	1	08/28/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	08/28/20	EK	SW6010D
Extraction of CT ETPH	Completed				08/27/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				08/27/20	VT/AW	SW7470A
Extraction for Pest (LDL)	Completed				08/31/20	C	SW3510C
Semi-Volatile Extraction	Completed				08/27/20	P/AK	SW3520C
Total Metals Digestion	Completed				08/27/20	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.074	mg/L	1	08/31/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/31/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	77		%	1	08/31/20	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
a-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Alachlor	ND	0.075	ug/L	1	09/02/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	09/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Chlordane	ND	0.30	ug/L	1	09/02/20	CG	SW8081B
d-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Dieldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
Endosulfan I	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endosulfan II	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endrin	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endrin Aldehyde	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
Endrin ketone	ND	0.050	ug/L	1	09/02/20	CG	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Methoxychlor	ND	0.10	ug/L	1	09/02/20	CG	SW8081B
Toxaphene	ND	1.0	ug/L	1	09/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	120		%	1	09/02/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	78		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	66		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	76		%	1	09/02/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Acetone	ND	25	ug/L	1	08/27/20	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	08/27/20	MH	70 - 130 %
% Bromofluorobenzene	90		%	1	08/27/20	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	08/27/20	MH	70 - 130 %
% Toluene-d8	103		%	1	08/27/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.50	ug/L	1	08/28/20	WB	SW8270D (SIM)

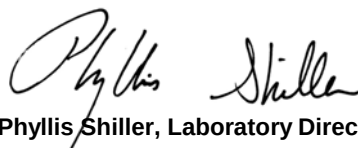
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acenaphthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	08/28/20	WB SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	58		%	1	08/28/20	WB 30 - 130 %
% Nitrobenzene-d5	82		%	1	08/28/20	WB 30 - 130 %
% Terphenyl-d14	81		%	1	08/28/20	WB 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

September 08, 2020

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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

16:55
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62900

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/28/20	EK	SW6010D
Barium	0.065	0.002	mg/L	1	08/28/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Chromium	0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	08/27/20	MGH	SW7470A
Lead	< 0.002	0.002	mg/L	1	08/28/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	08/28/20	EK	SW6010D
Extraction of CT ETPH	Completed				08/27/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				08/27/20	VT/AW	SW7470A
Extraction for Pest (LDL)	Completed				08/31/20	C	SW3510C
Semi-Volatile Extraction	Completed				08/27/20	P/AK	SW3520C
Total Metals Digestion	Completed				08/27/20	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.072	mg/L	1	08/31/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/31/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	88		%	1	08/31/20	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDT	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
a-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Alachlor	ND	0.076	ug/L	1	09/02/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	09/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Chlordane	ND	0.020	ug/L	1	09/02/20	CG	SW8081B
d-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Dieldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
Endosulfan I	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endosulfan II	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
Endrin ketone	ND	0.051	ug/L	1	09/02/20	CG	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Methoxychlor	ND	0.10	ug/L	1	09/02/20	CG	SW8081B
Toxaphene	ND	0.20	ug/L	1	09/02/20	CG	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	107		%	1	09/02/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	69		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	76		%	1	09/02/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	56		%	1	09/02/20	CG	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Acetone	ND	25	ug/L	1	08/27/20	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	08/27/20	MH	70 - 130 %
% Bromofluorobenzene	89		%	1	08/27/20	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	08/27/20	MH	70 - 130 %
% Toluene-d8	102		%	1	08/27/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.50	ug/L	1	08/28/20	WB	SW8270D (SIM)

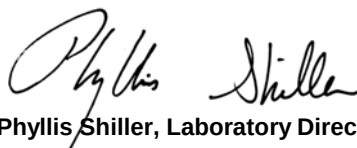
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acenaphthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	08/28/20	WB SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	59		%	1	08/28/20	WB 30 - 130 %
% Nitrobenzene-d5	85		%	1	08/28/20	WB 30 - 130 %
% Terphenyl-d14	80		%	1	08/28/20	WB 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

September 08, 2020

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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

18:05
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62901

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/28/20	EK	SW6010D
Barium	0.059	0.002	mg/L	1	08/28/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Chromium	< 0.001	0.001	mg/L	1	08/28/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	08/27/20	MGH	SW7470A
Lead	< 0.002	0.002	mg/L	1	08/28/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	08/28/20	EK	SW6010D
Extraction of CT ETPH	Completed				08/27/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				08/27/20	VT/AW	SW7470A
Extraction for Pest (LDL)	Completed				08/31/20	C	SW3510C
Semi-Volatile Extraction	Completed				08/27/20	P/AK	SW3520C
Total Metals Digestion	Completed				08/27/20	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.075	mg/L	1	08/31/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/31/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	74		%	1	08/31/20	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
4,4' -DDT	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
a-BHC	ND	0.025	ug/L	1	09/02/20	CG	SW8081B
Alachlor	ND	0.076	ug/L	1	09/02/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	09/02/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	09/02/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Chlordane	ND	0.020	ug/L	1	09/02/20	CG SW8081B
d-BHC	ND	0.025	ug/L	1	09/02/20	CG SW8081B
Dieldrin	ND	0.002	ug/L	1	09/02/20	CG SW8081B
Endosulfan I	ND	0.051	ug/L	1	09/02/20	CG SW8081B
Endosulfan II	ND	0.051	ug/L	1	09/02/20	CG SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	09/02/20	CG SW8081B
Endrin	ND	0.051	ug/L	1	09/02/20	CG SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	09/02/20	CG SW8081B
Endrin ketone	ND	0.051	ug/L	1	09/02/20	CG SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	09/02/20	CG SW8081B
Heptachlor	ND	0.025	ug/L	1	09/02/20	CG SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	09/02/20	CG SW8081B
Methoxychlor	ND	0.10	ug/L	1	09/02/20	CG SW8081B
Toxaphene	ND	0.20	ug/L	1	09/02/20	CG SW8081B
<u>QA/QC Surrogates</u>						
%DCBP (Surrogate Rec)	108		%	1	09/02/20	CG 30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	75		%	1	09/02/20	CG 30 - 150 %
%TCMX (Surrogate Rec)	71		%	1	09/02/20	CG 30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	58		%	1	09/02/20	CG 30 - 150 %
<u>Volatiles</u>						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH SW8260
Acetone	ND	25	ug/L	1	08/27/20	MH SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	08/27/20	MH	70 - 130 %
% Bromofluorobenzene	89		%	1	08/27/20	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	08/27/20	MH	70 - 130 %
% Toluene-d8	103		%	1	08/27/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.50	ug/L	1	08/28/20	WB	SW8270D (SIM)

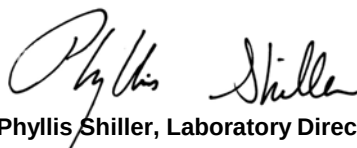
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acenaphthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	08/28/20	WB SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	08/28/20	WB SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	08/28/20	WB SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	08/28/20	WB SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	08/28/20	WB SW8270D (SIM)
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	59		%	1	08/28/20	WB 30 - 130 %
% Nitrobenzene-d5	84		%	1	08/28/20	WB 30 - 130 %
% Terphenyl-d14	81		%	1	08/28/20	WB 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

September 08, 2020

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

September 08, 2020

FOR: Attn: Dan Jahne
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

08/26/20
08/26/20

Time

18:10
19:06

Laboratory Data

SDG ID: GCG62894
Phoenix ID: CG62902

Project ID: RIVERFRONT + WINDSOR MEADOWS STATE PARK
Client ID: 1305200826-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	08/27/20	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/27/20	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/27/20	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/27/20	MH	SW8260

Client ID: 1305200826-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
Acetone	ND	25	ug/L	1	08/27/20	MH SW8260
Acrylonitrile	ND	0.50	ug/L	1	08/27/20	MH SW8260
Benzene	ND	0.70	ug/L	1	08/27/20	MH SW8260
Bromobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/27/20	MH SW8260
Bromoform	ND	1.0	ug/L	1	08/27/20	MH SW8260
Bromomethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/27/20	MH SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/27/20	MH SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Chloroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
Chloroform	ND	1.0	ug/L	1	08/27/20	MH SW8260
Chloromethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/27/20	MH SW8260
Dibromomethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/27/20	MH SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/27/20	MH SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/27/20	MH SW8260
Methylene chloride	ND	1.0	ug/L	1	08/27/20	MH SW8260
Naphthalene	ND	1.0	ug/L	1	08/27/20	MH SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
o-Xylene	ND	1.0	ug/L	1	08/27/20	MH SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/27/20	MH SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Styrene	ND	1.0	ug/L	1	08/27/20	MH SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/27/20	MH SW8260
Toluene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Total Xylenes	ND	1.0	ug/L	1	08/27/20	MH SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/27/20	MH SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/27/20	MH SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/27/20	MH SW8260
Trichloroethene	ND	1.0	ug/L	1	08/27/20	MH SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/27/20	MH SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/27/20	MH SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	100		%	1	08/27/20	MH 70 - 130 %
% Bromofluorobenzene	91		%	1	08/27/20	MH 70 - 130 %
% Dibromofluoromethane	99		%	1	08/27/20	MH 70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By
% Toluene-d8	102		%	1	08/27/20	MH 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

September 08, 2020

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

QA/QC Report

September 08, 2020

QA/QC Data

SDG I.D.: GCG62894

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 543061 (mg/L), QC Sample No: CG62896 (CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	93.4			94.6	91.4	3.4	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 543150 (mg/L), QC Sample No: CG62896 (CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901)

ICP Metals - Aqueous

Arsenic	BRL	0.004	<0.004	<0.004	NC	107	108	0.9	109	108	0.9	80 - 120	20
Barium	BRL	0.002	0.062	0.063	1.60	108	108	0.0	109	108	0.9	80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	107	108	0.9	108	107	0.9	80 - 120	20
Chromium	BRL	0.001	0.001	0.001	NC	105	105	0.0	105	105	0.0	80 - 120	20
Lead	BRL	0.002	<0.002	<0.002	NC	101	102	1.0	102	102	0.0	80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	99.1	99.6	0.5	99.3	99.3	0.0	80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	102	103	1.0	104	104	0.0	80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



Environmental Laboratories, Inc.

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Tel. (860) 645-1102

Fax (860) 645-0823

QA/QC Report

September 08, 2020

QA/QC Data

SDG I.D.: GCG62894

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 543153 (mg/L), QC Sample No: CG62896 (CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	72	68	5.7	67	61	9.4	60 - 120	30
% n-Pentacosane	68	%	75	70	6.9	64	59	8.1	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 543506 (ug/L), QC Sample No: CG62896 (CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	116	113	2.6	83	89	7.0	40 - 140	20
4,4' -DDE	ND	0.003	119	117	1.7	80	85	6.1	40 - 140	20
4,4' -DDT	ND	0.003	101	98	3.0	79	83	4.9	40 - 140	20
a-BHC	ND	0.002	107	101	5.8	72	71	1.4	40 - 140	20
Alachlor	ND	0.005	NA	NA	NC	NA	NA	NC	40 - 140	20
Aldrin	ND	0.002	93	109	15.8	65	72	10.2	40 - 140	20
b-BHC	ND	0.002	135	131	3.0	96	99	3.1	40 - 140	20
Chlordane	ND	0.050	97	96	1.0	70	82	15.8	40 - 140	20
d-BHC	ND	0.005	62	61	1.6	46	49	6.3	40 - 140	20
Dieldrin	ND	0.002	119	102	15.4	80	79	1.3	40 - 140	20
Endosulfan I	ND	0.005	113	111	1.8	78	81	3.8	40 - 140	20
Endosulfan II	ND	0.005	107	106	0.9	79	82	3.7	40 - 140	20
Endosulfan sulfate	ND	0.005	120	117	2.5	121	86	33.8	40 - 140	20 r
Endrin	ND	0.005	113	113	0.0	79	80	1.3	40 - 140	20
Endrin aldehyde	ND	0.005	140	139	0.7	95	91	4.3	40 - 140	20
Endrin ketone	ND	0.005	117	115	1.7	124	87	35.1	40 - 140	20 r
g-BHC	ND	0.002	114	115	0.9	82	83	1.2	40 - 140	20
Heptachlor	ND	0.005	96	112	15.4	69	71	2.9	40 - 140	20
Heptachlor epoxide	ND	0.005	94	93	1.1	68	74	8.5	40 - 140	20
Methoxychlor	ND	0.005	102	100	2.0	68	75	9.8	40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC	NA	NA	NC	40 - 140	20
% DCBP	71	%	92	69	28.6	68	83	19.9	30 - 150	20 r
% DCBP (Confirmation)	56	%	61	55	10.3	59	64	8.1	30 - 150	20
% TCMX	78	%	90	89	1.1	57	61	6.8	30 - 150	20
% TCMX (Confirmation)	77	%	81	87	7.1	59	65	9.7	30 - 150	20

QA/QC Batch 543152 (ug/L), QC Sample No: CG62896 (CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	51	72	34.1	65	65	0.0	30 - 130	20 r
Acenaphthene	ND	0.50	46	41	11.5	64	64	0.0	30 - 130	20
Acenaphthylene	ND	0.30	42	42	0.0	60	61	1.7	30 - 130	20
Anthracene	ND	0.50	51	41	21.7	68	69	1.5	30 - 130	20 r

QA/QC Data

SDG I.D.: GCG62894

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benz(a)anthracene	ND	0.05	60	60	0.0	77	77	0.0	30 - 130	20
Benzo(a)pyrene	ND	0.20	60	60	0.0	75	72	4.1	30 - 130	20
Benzo(b)fluoranthene	ND	0.07	73	53	31.7	93	87	6.7	30 - 130	20
Benzo(ghi)perylene	ND	0.48	68	35	64.1	78	72	8.0	30 - 130	20
Benzo(k)fluoranthene	ND	0.30	42	42	0.0	50	48	4.1	30 - 130	20
Chrysene	ND	0.50	57	43	28.0	72	71	1.4	30 - 130	20
Dibenz(a,h)anthracene	ND	0.10	56	49	13.3	65	58	11.4	30 - 130	20
Fluoranthene	ND	0.50	55	38	36.6	77	75	2.6	30 - 130	20
Fluorene	ND	0.50	49	59	18.5	67	68	1.5	30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.10	58	58	0.0	65	61	6.3	30 - 130	20
Naphthalene	ND	0.50	42	64	41.5	56	58	3.5	30 - 130	20
Phenanthrene	ND	0.06	48	56	15.4	66	66	0.0	30 - 130	20
Pyrene	ND	0.50	57	57	0.0	80	79	1.3	30 - 130	20
% 2-Fluorobiphenyl	50	%	37	51	31.8	54	55	1.8	30 - 130	20
% Nitrobenzene-d5	59	%	46	69	40.0	70	73	4.2	30 - 130	20
% Terphenyl-d14	80	%	58	35	49.5	79	78	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 543323 (ug/L), QC Sample No: CG62896 (CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901, CG62902)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	103	99	4.0	97	101	4.0	70 - 130	30
1,1,1-Trichloroethane	ND	1.0	97	93	4.2	94	98	4.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	112	113	0.9	104	106	1.9	70 - 130	30
1,1,2-Trichloroethane	ND	1.0	104	103	1.0	97	103	6.0	70 - 130	30
1,1-Dichloroethane	ND	1.0	98	102	4.0	94	98	4.2	70 - 130	30
1,1-Dichloroethene	ND	1.0	95	95	0.0	95	103	8.1	70 - 130	30
1,1-Dichloropropene	ND	1.0	103	98	5.0	99	106	6.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	110	113	2.7	100	105	4.9	70 - 130	30
1,2,3-Trichloropropane	ND	1.0	108	103	4.7	100	102	2.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	106	107	0.9	95	103	8.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	104	1.9	98	103	5.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	121	115	5.1	105	108	2.8	70 - 130	30
1,2-Dibromoethane	ND	1.0	107	106	0.9	98	100	2.0	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	102	101	1.0	97	101	4.0	70 - 130	30
1,2-Dichloroethane	ND	1.0	104	101	2.9	97	99	2.0	70 - 130	30
1,2-Dichloropropane	ND	1.0	106	102	3.8	100	106	5.8	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	102	105	2.9	98	106	7.8	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	101	103	2.0	96	100	4.1	70 - 130	30
1,3-Dichloropropane	ND	1.0	108	106	1.9	99	101	2.0	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	100	101	1.0	96	99	3.1	70 - 130	30
2,2-Dichloropropane	ND	1.0	99	110	10.5	89	97	8.6	70 - 130	30
2-Chlorotoluene	ND	1.0	104	102	1.9	95	101	6.1	70 - 130	30
2-Hexanone	ND	5.0	115	112	2.6	99	102	3.0	70 - 130	30
2-Isopropyltoluene	ND	1.0	106	107	0.9	102	108	5.7	70 - 130	30
4-Chlorotoluene	ND	1.0	103	103	0.0	97	102	5.0	70 - 130	30
4-Methyl-2-pentanone	ND	5.0	114	112	1.8	100	105	4.9	70 - 130	30
Acetone	ND	5.0	105	100	4.9	102	103	1.0	70 - 130	30
Acrylonitrile	ND	5.0	104	105	1.0	92	95	3.2	70 - 130	30
Benzene	ND	0.70	107	104	2.8	101	108	6.7	70 - 130	30
Bromobenzene	ND	1.0	98	100	2.0	94	95	1.1	70 - 130	30

QA/QC Data

SDG I.D.: GCG62894

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromochloromethane	ND	1.0	100	98	2.0	91	95	4.3	70 - 130	30
Bromodichloromethane	ND	0.50	103	104	1.0	97	103	6.0	70 - 130	30
Bromoform	ND	1.0	105	103	1.9	95	95	0.0	70 - 130	30
Bromomethane	ND	1.0	94	92	2.2	88	98	10.8	70 - 130	30
Carbon Disulfide	ND	1.0	96	96	0.0	95	101	6.1	70 - 130	30
Carbon tetrachloride	ND	1.0	107	90	17.3	109	113	3.6	70 - 130	30
Chlorobenzene	ND	1.0	104	101	2.9	101	103	2.0	70 - 130	30
Chloroethane	ND	1.0	87	90	3.4	90	102	12.5	70 - 130	30
Chloroform	ND	1.0	99	99	0.0	95	101	6.1	70 - 130	30
Chloromethane	ND	1.0	93	91	2.2	91	103	12.4	70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	92	93	1.1	87	93	6.7	70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	106	105	0.9	89	94	5.5	70 - 130	30
Dibromochloromethane	ND	0.50	114	110	3.6	104	102	1.9	70 - 130	30
Dibromomethane	ND	1.0	99	99	0.0	94	96	2.1	70 - 130	30
Dichlorodifluoromethane	ND	1.0	95	88	7.7	89	99	10.6	70 - 130	30
Ethylbenzene	ND	1.0	105	102	2.9	100	105	4.9	70 - 130	30
Hexachlorobutadiene	ND	0.40	103	106	2.9	98	105	6.9	70 - 130	30
Isopropylbenzene	ND	1.0	103	105	1.9	99	106	6.8	70 - 130	30
m&p-Xylene	ND	1.0	106	101	4.8	101	104	2.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	116	115	0.9	99	109	9.6	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	108	107	0.9	96	100	4.1	70 - 130	30
Methylene chloride	ND	1.0	88	88	0.0	86	88	2.3	70 - 130	30
Naphthalene	ND	1.0	121	121	0.0	105	109	3.7	70 - 130	30
n-Butylbenzene	ND	1.0	106	108	1.9	103	109	5.7	70 - 130	30
n-Propylbenzene	ND	1.0	101	105	3.9	100	106	5.8	70 - 130	30
o-Xylene	ND	1.0	110	107	2.8	103	105	1.9	70 - 130	30
p-Isopropyltoluene	ND	1.0	107	109	1.9	103	110	6.6	70 - 130	30
sec-Butylbenzene	ND	1.0	113	113	0.0	110	116	5.3	70 - 130	30
Styrene	ND	1.0	106	105	0.9	100	102	2.0	70 - 130	30
tert-Butylbenzene	ND	1.0	103	105	1.9	99	107	7.8	70 - 130	30
Tetrachloroethene	ND	1.0	98	96	2.1	97	103	6.0	70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	107	107	0.0	96	99	3.1	70 - 130	30
Toluene	ND	1.0	101	101	0.0	98	104	5.9	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	100	98	2.0	99	103	4.0	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	108	106	1.9	93	101	8.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	127	135	6.1	94	96	2.1	70 - 130	30
Trichloroethene	ND	1.0	100	99	1.0	98	105	6.9	70 - 130	30
Trichlorofluoromethane	ND	1.0	93	88	5.5	90	100	10.5	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	85	82	3.6	87	94	7.7	70 - 130	30
Vinyl chloride	ND	1.0	99	100	1.0	100	110	9.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	96	100	4.1	99	100	1.0	70 - 130	30
% Bromofluorobenzene	90	%	101	99	2.0	100	98	2.0	70 - 130	30
% Dibromofluoromethane	99	%	94	102	8.2	96	94	2.1	70 - 130	30
% Toluene-d8	104	%	99	99	0.0	97	100	3.0	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.

r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GCG62894

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

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
September 08, 2020

Tuesday, September 08, 2020

Criteria: CT: GWP, RV, SWP

State: CT

Sample Criteria Exceedances Report

GCG62894 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG62894	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62894	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG62895	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62895	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG62896	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62896	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG62897	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62897	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG62898	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62898	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG62899	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62899	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG62900	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62900	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG62901	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62901	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CG62902	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CG62902	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	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: Fuss & O'Neill, Inc.

Project Location: RIVERFRONT + WINDSOR MEADOW

Project Number:

Laboratory Sample ID(s): CG62894-CG62902

Sampling Date(s): 8/26/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 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?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ 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)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☐ Yes ☒ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: PEST Narration, SVOASIM Narration, VOA Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☐ Yes ☒ 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?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☒ Yes ☐ 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: Laboratory Director

Printed Name: Phyllis Shiller

Date: Tuesday, September 08, 2020

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

September 08, 2020

SDG I.D.: GCG62894

SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are reported as requested on the chain of custody.

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.

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).

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? Yes.

Instrument:

AU-FID11 08/30/20-1 Jeff Bucko, Chemist 08/30/20

CG62894 (1X), CG62895 (1X), CG62896 (1X), CG62899 (1X)

The initial calibration (ETPH730I) 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 (830A003_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 08/28/20-1 Jeff Bucko, Chemist 08/28/20

CG62897 (1X), CG62898 (1X)

The initial calibration (ETPH624I) 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 (828A003A_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 08/31/20-1 Jeff Bucko, Chemist 08/31/20

CG62900 (1X), CG62901 (1X)

The initial calibration (ETPH720I) 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 (831A003) 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 543153 (CG62896)

CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901

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.



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RCP Certification Report

September 08, 2020

SDG I.D.: GCG62894

ETPH Narration

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 08/27/20 08:18

Mike Hornak, Chemist 08/27/20

CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901

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 543061 (CG62896)

CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901

All LCS recoveries were within 80 - 120 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 20% 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:

BLUE 08/27/20 07:50

Emily Kolominskaya, Chemist 08/27/20

CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. 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 (Site Specific):



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Certification Report

September 08, 2020

SDG I.D.: GCG62894

ICP Metals Narration

Batch 543150 (CG62896)

CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901

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.

All MSD recoveries were within 75 - 125 with the following exceptions: None.

All MS/MSD RPDs were less than 20% with the following exceptions: None.

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 543506 (Samples: CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901): ----

The LCS/LCSD RPD exceeds the method criteria for one surrogate. (% DCBP) The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Endosulfan sulfate, Endrin ketone)

Instrument:

AU-ECD4 09/01/20-2

Chelsey Guerette, Chemist 09/01/20

CG62894 (1X), CG62895 (1X), CG62896 (1X), CG62897 (1X), CG62898 (1X), CG62899 (1X), CG62900 (1X), CG62901 (1X)

The initial calibration (PS0901AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0901BI) 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: CG62894, CG62895, CG62896, CG62897, CG62898, CG62899

Preceding CC 901A037 - b-BHC 28%H (20%), Endosulfan sulfate 22%H (20%), Endrin aldehyde 32%H (20%)

Succeeding CC 901A052 - b-BHC 28%H (20%), Endrin aldehyde 32%H (20%), g-BHC 21%H (20%)

Samples: CG62900, CG62901

Preceding CC 901A052 - b-BHC 28%H (20%), Endrin aldehyde 32%H (20%), g-BHC 21%H (20%)

Succeeding CC 901A064 - b-BHC 28%H (20%), Endrin aldehyde 30%H (20%)

QC (Site Specific):

Batch 543506 (CG62896)

CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901

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(28.6%)

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 20% with the following exceptions: Endosulfan sulfate(33.8%), Endrin ketone(35.1%)

SVOASIM Narration



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RCP Certification Report

September 08, 2020

SDG I.D.: GCG62894

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 543152 (Samples: CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes and surrogate. These analytes were not reported in the sample(s). The site MS/MSD RPD is acceptable. No significant variability is suspected. (2-Methylnaphthalene, Anthracene, Benzo(b)fluoranthene, Benzo(ghi)perylene, Chrysene, Fluoranthene, Naphthalene, % 2-Fluorobiphenyl, % Nitrobenzene-d5, % Terphenyl-d14)

Instrument:

CHEM25 08/28/20-1

Wes Bryon, Chemist 08/28/20

CG62894 (1X), CG62895 (1X), CG62896 (1X), CG62897 (1X), CG62898 (1X), CG62899 (1X), CG62900 (1X), CG62901 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM25/25_BNSIM18_0805):

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 (CHEM25/0828_03-25_BNSIM18_0805):

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 543152 (CG62896)

CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901

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: % 2-Fluorobiphenyl(31.8%), % Nitrobenzene-d5(40.0%), % Terphenyl-d14(49.5%), 2-Methylnaphthalene(34.1%), Anthracene(21.7%), Benzo(b)fluoranthene(31.7%), Benzo(ghi)perylene(64.1%), Chrysene(28.0%), Fluoranthene(36.6%), Naphthalene(41.5%)

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 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



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RCP Certification Report

September 08, 2020

SDG I.D.: GCG62894

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 543323 (Samples: CG62894, CG62895, CG62896, CG62897, CG62898, CG62899, CG62900, CG62901, CG62902): -----

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)

Instrument:

CHEM23 08/27/20-1

Michael Hahn, Chemist 08/27/20

CG62894 (1X), CG62895 (1X), CG62896 (1X), CG62897 (1X), CG62898 (1X), CG62899 (1X), CG62900 (1X), CG62901 (1X), CG62902 (1X)

Initial Calibration Evaluation (CHEM23/VOA23_082420):

97% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 31% (20%), Bromoform 24% (20%), trans-1,4-dichloro-2-butene 22% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Tetrachloroethene 0.184 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM23/0827_05-VOA23_082420):

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 (Site Specific):

Batch 543323 (CG62896)

CHEM23 8/27/2020-1

CG62894(1X), CG62895(1X), CG62896(1X), CG62897(1X), CG62898(1X), CG62899(1X), CG62900(1X), CG62901(1X), CG62902(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(135%)

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

The samples were received at 16.6C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



Thursday, March 04, 2021

Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RIVERFRONT LAND INC
SDG ID: GCH69953
Sample ID#s: CH69953 - CH69955

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, appearing to read "Phyllis Shiller".

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
UT Lab Registration #CT00007
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

March 04, 2021

SDG I.D.: GCH69953

Project ID: RIVERFRONT LAND INC

Client Id	Lab Id	Matrix
1305210301-09	CH69953	GROUND WATER
1305210301-10	CH69954	GROUND WATER
1305210301-11	CH69955	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

March 04, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/01/21
03/01/21

Time

10:13
14:22

Laboratory Data

SDG ID: GCH69953
Phoenix ID: CH69953

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	03/04/21	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	03/04/21	EK	SW6010D
Barium	0.025	0.002	mg/L	1	03/04/21	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	03/04/21	EK	SW6010D
Chromium	0.002	0.001	mg/L	1	03/04/21	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	03/02/21	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	03/04/21	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	03/04/21	EK	SW6010D
Extraction of ETPH	Completed				03/01/21	P/CG	SW3510C/SW3520C
Mercury Digestion	Completed				03/02/21		SW7470A
Extraction for Pest (LDL)	Completed				03/01/21	C/TH	SW3510C
Semi-Volatile Extraction	Completed				03/02/21	P/CG	SW3520C
Total Metals Digestion	Completed				03/03/21	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.077	mg/L	1	03/02/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	03/02/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	NR		%	1	03/02/21	JRB	50 - 150 %
% Terphenyl (surr)	72		%	1	03/02/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
4,4' -DDE	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
4,4' -DDT	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
a-BHC	ND	0.026	ug/L	1	03/02/21	AW	SW8081B
Alachlor	ND	0.079	ug/L	1	03/02/21	AW	SW8081B
Aldrin	ND	0.002	ug/L	1	03/02/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	03/02/21	AW	SW8081B
Chlordane	ND	0.32	ug/L	1	03/02/21	AW	SW8081B
d-BHC	ND	0.026	ug/L	1	03/02/21	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	03/02/21	AW	SW8081B
Endosulfan I	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endosulfan II	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endosulfan Sulfate	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endrin	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endrin Aldehyde	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endrin ketone	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	03/02/21	AW	SW8081B
Heptachlor	ND	0.026	ug/L	1	03/02/21	AW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	03/02/21	AW	SW8081B
Methoxychlor	ND	0.11	ug/L	1	03/02/21	AW	SW8081B
Toxaphene	ND	1.1	ug/L	1	03/02/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	50		%	1	03/02/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	77		%	1	03/02/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	59		%	1	03/02/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	68		%	1	03/02/21	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	03/01/21	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Acetone	ND	25	ug/L	1	03/01/21	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	03/01/21	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	03/01/21	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
Bromoform	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloroform	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Styrene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	03/01/21	MH	SW8260
Toluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	03/01/21	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	97		%	1	03/01/21	MH	70 - 130 %
% Bromofluorobenzene	88		%	1	03/01/21	MH	70 - 130 %
% Dibromofluoromethane	85		%	1	03/01/21	MH	70 - 130 %
% Toluene-d8	95		%	1	03/01/21	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.32	ug/L	1	03/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.21	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.32	ug/L	1	03/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.11	ug/L	1	03/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.11	ug/L	1	03/03/21	WB	SW8270D (SIM)
Naphthalene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	03/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	53		%	1	03/03/21	WB	30 - 130 %
% Nitrobenzene-d5	49		%	1	03/03/21	WB	30 - 130 %
% Terphenyl-d14	88		%	1	03/03/21	WB	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:

TPH Comment:
NR = Not reported.

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

March 04, 2021

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

March 04, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/01/21
03/01/21

Time

10:57
14:22

Laboratory Data

SDG ID: GCH69953
Phoenix ID: CH69954

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	03/04/21	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	03/04/21	EK	SW6010D
Barium	0.079	0.002	mg/L	1	03/04/21	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	03/04/21	EK	SW6010D
Chromium	0.001	0.001	mg/L	1	03/04/21	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	03/02/21	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	03/04/21	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	03/04/21	EK	SW6010D
Extraction of ETPH	Completed				03/01/21	P/CG	SW3510C/SW3520C
Mercury Digestion	Completed				03/02/21		SW7470A
Extraction for Pest (LDL)	Completed				03/01/21	C/TH	SW3510C
Semi-Volatile Extraction	Completed				03/02/21	P/CG	SW3520C
Total Metals Digestion	Completed				03/03/21	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.069	mg/L	1	03/02/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	03/02/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	NR		%	1	03/02/21	JRB	50 - 150 %
% Terphenyl (surr)	73		%	1	03/02/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
4,4' -DDE	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
4,4' -DDT	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
a-BHC	ND	0.024	ug/L	1	03/02/21	AW	SW8081B
Alachlor	ND	0.071	ug/L	1	03/02/21	AW	SW8081B
Aldrin	ND	0.001	ug/L	1	03/02/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	03/02/21	AW	SW8081B
Chlordane	ND	0.29	ug/L	1	03/02/21	AW	SW8081B
d-BHC	ND	0.024	ug/L	1	03/02/21	AW	SW8081B
Dieldrin	ND	0.001	ug/L	1	03/02/21	AW	SW8081B
Endosulfan I	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
Endosulfan II	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
Endosulfan Sulfate	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
Endrin	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
Endrin Aldehyde	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
Endrin ketone	ND	0.048	ug/L	1	03/02/21	AW	SW8081B
g-BHC (Lindane)	ND	0.024	ug/L	1	03/02/21	AW	SW8081B
Heptachlor	ND	0.024	ug/L	1	03/02/21	AW	SW8081B
Heptachlor epoxide	ND	0.024	ug/L	1	03/02/21	AW	SW8081B
Methoxychlor	ND	0.095	ug/L	1	03/02/21	AW	SW8081B
Toxaphene	ND	0.95	ug/L	1	03/02/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	53		%	1	03/02/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	86		%	1	03/02/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	59		%	1	03/02/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	69		%	1	03/02/21	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	03/01/21	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Acetone	ND	25	ug/L	1	03/01/21	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	03/01/21	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	03/01/21	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
Bromoform	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloroform	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Styrene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	03/01/21	MH	SW8260
Toluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	03/01/21	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	03/01/21	MH	70 - 130 %
% Bromofluorobenzene	87		%	1	03/01/21	MH	70 - 130 %
% Dibromofluoromethane	75		%	1	03/01/21	MH	70 - 130 %
% Toluene-d8	95		%	1	03/01/21	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	03/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	03/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	03/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	03/03/21	WB	SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	03/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	65		%	1	03/03/21	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	03/03/21	WB	30 - 130 %
% Terphenyl-d14	103		%	1	03/03/21	WB	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:

TPH Comment:
NR = Not reported.

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

March 04, 2021

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

March 04, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/01/21

Time

11:32

03/01/21

14:22

Laboratory Data

SDG ID: GCH69953
Phoenix ID: CH69955

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	03/04/21	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	03/04/21	EK	SW6010D
Barium	0.056	0.002	mg/L	1	03/04/21	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	03/04/21	EK	SW6010D
Chromium	< 0.001	0.001	mg/L	1	03/04/21	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	03/02/21	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	03/04/21	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	03/04/21	EK	SW6010D
Extraction of ETPH	Completed				03/01/21	P/CG	SW3510C/SW3520C
Mercury Digestion	Completed				03/02/21		SW7470A
Extraction for Pest (LDL)	Completed				03/01/21	C/TH	SW3510C
Semi-Volatile Extraction	Completed				03/02/21	P/CG	SW3520C
Total Metals Digestion	Completed				03/03/21	AG	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.074	mg/L	1	03/02/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	03/02/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	NR		%	1	03/02/21	JRB	50 - 150 %
% Terphenyl (surr)	75		%	1	03/02/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
4,4' -DDE	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
4,4' -DDT	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
a-BHC	ND	0.027	ug/L	1	03/02/21	AW	SW8081B
Alachlor	ND	0.080	ug/L	1	03/02/21	AW	SW8081B
Aldrin	ND	0.002	ug/L	1	03/02/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	03/02/21	AW	SW8081B
Chlordane	ND	0.32	ug/L	1	03/02/21	AW	SW8081B
d-BHC	ND	0.027	ug/L	1	03/02/21	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	03/02/21	AW	SW8081B
Endosulfan I	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endosulfan II	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endosulfan Sulfate	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endrin	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endrin Aldehyde	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
Endrin ketone	ND	0.053	ug/L	1	03/02/21	AW	SW8081B
g-BHC (Lindane)	ND	0.027	ug/L	1	03/02/21	AW	SW8081B
Heptachlor	ND	0.027	ug/L	1	03/02/21	AW	SW8081B
Heptachlor epoxide	ND	0.027	ug/L	1	03/02/21	AW	SW8081B
Methoxychlor	ND	0.11	ug/L	1	03/02/21	AW	SW8081B
Toxaphene	ND	1.1	ug/L	1	03/02/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	44		%	1	03/02/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	64		%	1	03/02/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	56		%	1	03/02/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	64		%	1	03/02/21	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	03/01/21	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Acetone	ND	25	ug/L	1	03/01/21	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	03/01/21	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	03/01/21	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
Bromoform	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloroform	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	03/01/21	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Styrene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	03/01/21	MH	SW8260
Toluene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	03/01/21	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	03/01/21	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	03/01/21	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	03/01/21	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	03/01/21	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	95		%	1	03/01/21	MH	70 - 130 %
% Bromofluorobenzene	88		%	1	03/01/21	MH	70 - 130 %
% Dibromofluoromethane	83		%	1	03/01/21	MH	70 - 130 %
% Toluene-d8	96		%	1	03/01/21	MH	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Acenaphthene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Acenaphthylene	ND	0.32	ug/L	1	03/03/21	WB	SW8270D (SIM)
Anthracene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.21	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50	ug/L	1	03/03/21	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.32	ug/L	1	03/03/21	WB	SW8270D (SIM)
Chrysene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.11	ug/L	1	03/03/21	WB	SW8270D (SIM)
Fluoranthene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Fluorene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.11	ug/L	1	03/03/21	WB	SW8270D (SIM)
Naphthalene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	03/03/21	WB	SW8270D (SIM)
Pyrene	ND	0.53	ug/L	1	03/03/21	WB	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	61		%	1	03/03/21	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	03/03/21	WB	30 - 130 %
% Terphenyl-d14	93		%	1	03/03/21	WB	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:

TPH Comment:
NR = Not reported.

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

March 04, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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QA/QC Report

March 04, 2021

QA/QC Data

SDG I.D.: GCH69953

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 565120 (mg/L), QC Sample No: CH69732 (CH69953, CH69954, CH69955)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	113			90.6			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 565372 (mg/L), QC Sample No: CH70601 (CH69953, CH69954, CH69955)

ICP Metals - Aqueous

Arsenic	BRL	0.004	0.008	0.007	NC	96.1	97.9	1.9	98.0			80 - 120	20
Barium	BRL	0.002	0.004	0.004	NC	96.8	98.5	1.7	96.5			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	95.8	97.4	1.7	94.5			80 - 120	20
Chromium	BRL	0.001	0.006	0.006	0	98.0	99.3	1.3	98.5			80 - 120	20
Lead	BRL	0.002	<0.002	<0.002	NC	98.0	99.1	1.1	92.8			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	92.3	95.2	3.1	87.3			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	99.4	101	1.6	93.3			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

March 04, 2021

QA/QC Data

SDG I.D.: GCH69953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 565085 (mg/L), QC Sample No: CH69572 (CH69953, CH69954, CH69955)										
<u>TPH by GC (Extractable Products) - Ground Water</u>										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	87	90	3.4				60 - 120	30
% COD (surr)	NR	%	88	86	2.3				50 - 150	20
% Terphenyl (surr)	73	%	93	83	11.4				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 565098 (ug/L), QC Sample No: CH69953 (CH69953, CH69954, CH69955)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	78	85	8.6				40 - 140	20
4,4' -DDE	ND	0.003	73	83	12.8				40 - 140	20
4,4' -DDT	ND	0.003	75	80	6.5				40 - 140	20
a-BHC	ND	0.002	71	77	8.1				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	75	80	6.5				40 - 140	20
b-BHC	ND	0.002	87	96	9.8				40 - 140	20
Chlordane	ND	0.050	72	78	8.0				40 - 140	20
d-BHC	ND	0.005	64	70	9.0				40 - 140	20
Dieldrin	ND	0.002	75	81	7.7				40 - 140	20
Endosulfan I	ND	0.005	76	80	5.1				40 - 140	20
Endosulfan II	ND	0.005	78	85	8.6				40 - 140	20
Endosulfan sulfate	ND	0.005	76	81	6.4				40 - 140	20
Endrin	ND	0.005	80	85	6.1				40 - 140	20
Endrin aldehyde	ND	0.005	80	86	7.2				40 - 140	20
Endrin ketone	ND	0.005	82	88	7.1				40 - 140	20
g-BHC	ND	0.002	87	92	5.6				40 - 140	20
Heptachlor	ND	0.005	81	86	6.0				40 - 140	20
Heptachlor epoxide	ND	0.005	78	84	7.4				40 - 140	20
Methoxychlor	ND	0.005	86	94	8.9				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	64	%	83	89	7.0				30 - 150	20
% DCBP (Confirmation)	91	%	57	61	6.8				30 - 150	20
% TCMX	66	%	71	74	4.1				30 - 150	20
% TCMX (Confirmation)	77	%	68	66	3.0				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 565199 (ug/L), QC Sample No: CH69822 (CH69953, CH69954, CH69955)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	88	65	30.1				30 - 130	20
Acenaphthene	ND	0.50	81	78	3.8				30 - 130	20

QA/QC Data

SDG I.D.: GCH69953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Acenaphthylene	ND	0.10	64	78	19.7				30 - 130	20
Anthracene	ND	0.10	88	85	3.5				30 - 130	20
Benz(a)anthracene	ND	0.02	108	105	2.8				30 - 130	20
Benzo(a)pyrene	ND	0.02	116	111	4.4				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	117	101	14.7				30 - 130	20
Benzo(ghi)perylene	ND	0.02	92	84	9.1				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	93	83	11.4				30 - 130	20
Chrysene	ND	0.02	90	88	2.2				30 - 130	20
Dibenz(a,h)anthracene	ND	0.02	110	99	10.5				30 - 130	20
Fluoranthene	ND	0.50	91	87	4.5				30 - 130	20
Fluorene	ND	0.10	87	85	2.3				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	94	88	6.6				30 - 130	20
Naphthalene	ND	0.50	80	58	31.9				30 - 130	20
Phenanthrene	ND	0.06	93	89	4.4				30 - 130	20
Pyrene	ND	0.07	87	86	1.2				30 - 130	20
% 2-Fluorobiphenyl	65	%	72	68	5.7				30 - 130	20
% Nitrobenzene-d5	69	%	78	69	12.2				30 - 130	20
% Terphenyl-d14	102	%	102	99	3.0				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 565144 (ug/L), QC Sample No: CH69717 (CH69953, CH69954, CH69955)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	84	87	3.5				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	99	104	4.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	83	85	2.4				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	77	75	2.6				70 - 130	30
1,1-Dichloroethane	ND	1.0	95	97	2.1				70 - 130	30
1,1-Dichloroethene	ND	1.0	108	113	4.5				70 - 130	30
1,1-Dichloropropene	ND	1.0	96	102	6.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	83	83	0.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	85	86	1.2				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	83	84	1.2				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	95	101	6.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	65	66	1.5				70 - 130	30
1,2-Dibromoethane	ND	1.0	79	81	2.5				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	87	90	3.4				70 - 130	30
1,2-Dichloroethane	ND	1.0	84	82	2.4				70 - 130	30
1,2-Dichloropropane	ND	1.0	83	85	2.4				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	98	106	7.8				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	91	94	3.2				70 - 130	30
1,3-Dichloropropane	ND	1.0	83	84	1.2				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	89	92	3.3				70 - 130	30
2,2-Dichloropropane	ND	1.0	103	106	2.9				70 - 130	30
2-Chlorotoluene	ND	1.0	98	104	5.9				70 - 130	30
2-Hexanone	ND	5.0	76	79	3.9				70 - 130	30
2-Isopropyltoluene	ND	1.0	106	114	7.3				70 - 130	30
4-Chlorotoluene	ND	1.0	95	100	5.1				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	76	74	2.7				70 - 130	30
Acetone	ND	5.0	85	83	2.4				70 - 130	30
Acrylonitrile	ND	5.0	79	72	9.3				70 - 130	30
Benzene	ND	0.70	93	97	4.2				70 - 130	30

QA/QC Data

SDG I.D.: GCH69953

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromobenzene	ND	1.0	89	92	3.3				70 - 130	30
Bromochloromethane	ND	1.0	83	81	2.4				70 - 130	30
Bromodichloromethane	ND	0.50	81	81	0.0				70 - 130	30
Bromoform	ND	1.0	70	70	0.0				70 - 130	30
Bromomethane	ND	1.0	130	136	4.5				70 - 130	30
Carbon Disulfide	ND	1.0	115	118	2.6				70 - 130	30
Carbon tetrachloride	ND	1.0	101	104	2.9				70 - 130	30
Chlorobenzene	ND	1.0	92	98	6.3				70 - 130	30
Chloroethane	ND	1.0	112	115	2.6				70 - 130	30
Chloroform	ND	1.0	89	88	1.1				70 - 130	30
Chloromethane	ND	1.0	107	111	3.7				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	86	86	0.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	77	76	1.3				70 - 130	30
Dibromochloromethane	ND	0.50	81	81	0.0				70 - 130	30
Dibromomethane	ND	1.0	78	76	2.6				70 - 130	30
Dichlorodifluoromethane	ND	1.0	138	143	3.6				70 - 130	30
Ethylbenzene	ND	1.0	99	109	9.6				70 - 130	30
Hexachlorobutadiene	ND	0.40	104	109	4.7				70 - 130	30
Isopropylbenzene	ND	1.0	104	116	10.9				70 - 130	30
m&p-Xylene	ND	1.0	99	108	8.7				70 - 130	30
Methyl ethyl ketone	ND	5.0	82	77	6.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	81	78	3.8				70 - 130	30
Methylene chloride	ND	1.0	82	80	2.5				70 - 130	30
Naphthalene	ND	1.0	78	78	0.0				70 - 130	30
n-Butylbenzene	ND	1.0	103	111	7.5				70 - 130	30
n-Propylbenzene	ND	1.0	106	115	8.1				70 - 130	30
o-Xylene	ND	1.0	94	99	5.2				70 - 130	30
p-Isopropyltoluene	ND	1.0	102	110	7.5				70 - 130	30
sec-Butylbenzene	ND	1.0	110	119	7.9				70 - 130	30
Styrene	ND	1.0	86	89	3.4				70 - 130	30
tert-Butylbenzene	ND	1.0	102	112	9.3				70 - 130	30
Tetrachloroethene	ND	1.0	97	102	5.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	78	72	8.0				70 - 130	30
Toluene	ND	1.0	91	96	5.3				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	103	106	2.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	73	71	2.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	82	82	0.0				70 - 130	30
Trichloroethene	ND	1.0	95	101	6.1				70 - 130	30
Trichlorofluoromethane	ND	1.0	121	125	3.3				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	119	122	2.5				70 - 130	30
Vinyl chloride	ND	1.0	115	119	3.4				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	98	96	2.1				70 - 130	30
% Bromofluorobenzene	91	%	97	95	2.1				70 - 130	30
% Dibromofluoromethane	90	%	92	90	2.2				70 - 130	30
% Toluene-d8	96	%	97	96	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.

QA/QC Data

SDG I.D.: GCH69953

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

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
March 04, 2021

Thursday, March 04, 2021

Criteria: None
State: CT

Sample Criteria Exceedances Report
GCH69953 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** 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: Fuss & O'Neill, Inc.

Project Location: RIVERFRONT LAND INC

Project Number:

Laboratory Sample ID(s): CH69953-CH69955

Sampling Date(s): 3/1/2021

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 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?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ 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)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☒ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: SVOASIM Narration, VOA Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☐ Yes ☒ No ☒ Yes ☐ 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?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☐ Yes ☒ 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, March 04, 2021

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

March 04, 2021

SDG I.D.: GCH69953

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).

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL2 03/01/21-1

Jeff Bucko, Chemist 03/01/21

CH69953 (1X), CH69954 (1X), CH69955 (1X)

The initial calibration (ETPHD14I) 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 (301A006_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 565085 (CH69572)

CH69953, CH69954, CH69955

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 03/02/21 07:24

Rick Schweitzer, Chemist 03/02/21

CH69953, CH69954, CH69955

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 565120 (CH69732)

CH69953, CH69954, CH69955



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Certification Report

March 04, 2021

SDG I.D.: GCH69953

Mercury Narration

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:

BLUE 03/03/21 08:30 Emily Kolominskaya, Chemist 03/03/21

CH69953, CH69954, CH69955

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. 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 565372 (CH70601)

CH69953, CH69954, CH69955

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%.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD4 03/02/21-1 Adam Werner, Chemist 03/02/21

CH69953 (1X), CH69954 (1X), CH69955 (1X)

The initial calibration (PS215AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS215BI) 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: CH69953, CH69954, CH69955

Preceding CC 302B023 - b-BHC -21%L (20%)

Succeeding CC 302B032 - b-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.



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RCP Certification Report

March 04, 2021

SDG I.D.: GCH69953

PEST Narration

QC (Batch Specific):

Batch 565098 (CH69953)

CH69953, CH69954, CH69955

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 MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 565199 (Samples: CH69953, CH69954, CH69955): -----

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. (2-Methylnaphthalene, Naphthalene)

Instrument:

CHEM33 03/03/21-1

Wes Bryon, Chemist 03/03/21

CH69953 (1X), CH69954 (1X), CH69955 (1X)

Initial Calibration Evaluation (CHEM33/33_PAHSIM_0131):

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 (CHEM33/0303_05-33_PAHSIM_0131):

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 565199 (CH69822)

CH69953, CH69954, CH69955

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: 2-Methylnaphthalene(30.1%), Naphthalene(31.9%)

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

March 04, 2021

SDG I.D.: GCH69953

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 565144 (Samples: CH69953, CH69954, CH69955): -----

The LCS/LCSD recovery is below the lower range. A low bias is possible. (1,2-Dibromo-3-chloropropane)

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, Dichlorodifluoromethane)

Instrument:

CHEM02 03/01/21-2

Michael Hahn, Chemist 03/01/21

CH69953 (1X), CH69954 (1X), CH69955 (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-P021821):

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 0.078 (0.1)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM02/0301_21-VT-P021821):

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: 1,2,3-Trichlorobenzene 36%L (30%), 1,2-Dibromo-3-chloropropane 34%L (30%), Naphthalene 35%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 565144 (CH69717)

CHEM02 3/1/2021-2

CH69953(1X), CH69954(1X), CH69955(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,2-Dibromo-3-chloropropane(65%), Dichlorodifluoromethane(138%)

All LCSD recoveries were within 70 - 130 with the following exceptions: 1,2-Dibromo-3-chloropropane(66%), Bromomethane(136%), Dichlorodifluoromethane(143%)

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 2.8C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

gch 69953

Krystal Delgado

From: Stefanie Wierszchalek <SWierszchalek@fando.com>
Sent: Monday, March 1, 2021 3:09 PM
To: Krystal Delgado
Subject: RE: [External] 20170277.A30

Thanks Krystal,

I am following up with our field staff to see what happened and see if they have an extra trip blank that they can submit.

Stefanie Wierszchalek
Senior Hydrogeologist
Fuss & O'Neill, Inc. | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5503 | swierszchalek@fando.com | cell: 860.670.4385
www.fando.com | [twitter](#) | [facebook](#) | [linkedin](#)

From: Krystal Delgado [<mailto:KrystalD@phoenixlabs.com>]
Sent: Monday, March 1, 2021 2:33 PM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Subject: [External] 20170277.A30
Importance: High

Good Afternoon,

In regards to the project mentioned above, we are unable to use the trip blanks submitted as they were not properly prepared.

I have attached a picture for reference.

Thank you

Krystal Delgado
Client Service Representative/Sample Receiving
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
krystald@phoenixlabs.com
PH: 860-645-1102 ext:369
FX: 860-645-0823



Tuesday, April 06, 2021

Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RIVERFRONT LAND, INC.

SDG ID: GCH73111

Sample ID#s: CH73111 - CH73120, CH73122, CH73126, CH73128 - CH73129, CH73131,
CH73133, CH73135, CH73137, CH73139 - CH73140

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, appearing to read "Phyllis Shiller".

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
UT Lab Registration #CT00007
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

April 06, 2021

SDG I.D.: GCH73111

Version 2:
Sample CH73113 was re-evaluated to a lower reporting level.



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

April 06, 2021

SDG I.D.: GCH73111

Project ID: RIVERFRONT LAND, INC.

Client Id	Lab Id	Matrix
1305210305-01	CH73111	SOIL
1305210305-02	CH73112	SOIL
1305210305-03	CH73113	SOIL
1305210305-04	CH73114	SOIL
1305210305-05	CH73115	SOIL
1305210305-06	CH73116	SOIL
1305210305-07	CH73117	SOIL
1305210305-08	CH73118	SOIL
1305210305-09	CH73119	SOIL
1305210305-10	CH73120	SOIL
1305210305-12	CH73122	SOIL
1305210305-16	CH73126	SOIL
1305210305-18	CH73128	SOIL
1305210305-19	CH73129	SOIL
1305210305-21	CH73131	SOIL
1305210305-23	CH73133	SOIL
1305210305-25	CH73135	SOIL
1305210305-27	CH73137	SOIL
1305210305-29	CH73139	SOIL
1305210305-30	CH73140	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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73111

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	3.65	0.71	mg/Kg	1	03/06/21	EK	SW6010D
Barium	103	0.36	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	1.23	0.36	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	21.9	0.36	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	0.18	0.07	mg/Kg	5	03/08/21	RS	SW7471B
Lead	66.7	0.36	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	91		%		03/05/21	AN	SW846-%Solid
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA PAH	Completed				03/05/21	R/M	SW3546
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	330	270	mg/Kg	5	03/08/21	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	03/08/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	70		%	5	03/08/21	JRB	50 - 150 %
% Terphenyl (surr)	67		%	5	03/08/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	03/08/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	91		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	85		%	10	03/08/21	SC	30 - 150 %
% TCMX	80		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	81		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDE	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDT	8.0	7.2	ug/Kg	2	03/08/21	AW	SW8081B
a-BHC	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	03/08/21	AW	SW8081B
b-BHC	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	03/08/21	AW	SW8081B
d-BHC	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Endrin	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	03/08/21	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	03/08/21	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	03/08/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	03/08/21	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	03/08/21	AW	30 - 150 %
% TCMX	57		%	2	03/08/21	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	03/08/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthene	620	250	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthylene	450	250	ug/Kg	1	03/06/21	WB	SW8270D
Anthracene	890	250	ug/Kg	1	03/06/21	WB	SW8270D
Benz(a)anthracene	4600	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(a)pyrene	4800	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(b)fluoranthene	4300	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(ghi)perylene	2700	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(k)fluoranthene	3100	250	ug/Kg	1	03/06/21	WB	SW8270D
Chrysene	4700	250	ug/Kg	1	03/06/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	700	250	ug/Kg	1	03/06/21	WB	SW8270D
Fluoranthene	13000	2500	ug/Kg	10	03/08/21	WB	SW8270D
Fluorene	580	250	ug/Kg	1	03/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	3100	250	ug/Kg	1	03/06/21	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Phenanthrene	2800	250	ug/Kg	1	03/06/21	WB	SW8270D
Pyrene	11000	2500	ug/Kg	10	03/08/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	03/06/21	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	03/06/21	WB	30 - 130 %
% Terphenyl-d14	89		%	1	03/06/21	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	03/08/21	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	03/08/21	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	03/08/21	WB	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:

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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73112

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	2.56	0.77	mg/Kg	1	03/06/21	EK	SW6010D
Barium	74.0	0.38	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	0.80	0.38	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	18.9	0.38	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	03/08/21	RS	SW7471B
Lead	10.1	0.38	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	87		%		03/05/21	AN	SW846-%Solid
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA PAH	Completed				03/05/21	R/M	SW3546
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	280	mg/Kg	5	03/08/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	03/08/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	80		%	5	03/08/21	JRB	50 - 150 %
% Terphenyl (surr)	110		%	5	03/08/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	03/08/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	99		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	93		%	10	03/08/21	SC	30 - 150 %
% TCMX	95		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	91		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDE	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDT	8.2	7.5	ug/Kg	2	03/08/21	AW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Alachlor	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	03/08/21	AW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	03/08/21	AW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	03/08/21	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	03/08/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	03/08/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	68		%	2	03/08/21	AW	30 - 150 %
% DCBP (Confirmation)	71		%	2	03/08/21	AW	30 - 150 %
% TCMX	61		%	2	03/08/21	AW	30 - 150 %
% TCMX (Confirmation)	64		%	2	03/08/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Acenaphthene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Acenaphthylene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Anthracene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Benz(a)anthracene	840	750	ug/Kg	10	03/06/21	PS	SW8270D
Benzo(a)pyrene	730	670	ug/Kg	10	03/06/21	PS	SW8270D
Benzo(b)fluoranthene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Benzo(ghi)perylene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Benzo(k)fluoranthene	710	670	ug/Kg	10	03/06/21	PS	SW8270D
Chrysene	780	750	ug/Kg	10	03/06/21	PS	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Fluoranthene	1500	750	ug/Kg	10	03/06/21	PS	SW8270D
Fluorene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Indeno(1,2,3-cd)pyrene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Naphthalene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Phenanthrene	ND	750	ug/Kg	10	03/06/21	PS	SW8270D
Pyrene	1300	750	ug/Kg	10	03/06/21	PS	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl (10x)	73		%	10	03/06/21	PS	30 - 130 %
% Nitrobenzene-d5 (10x)	74		%	10	03/06/21	PS	30 - 130 %
% Terphenyl-d14 (10x)	86		%	10	03/06/21	PS	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.

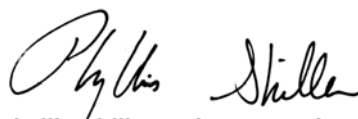
Comments:

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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73113

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	4.47	0.78	mg/Kg	1	03/06/21	EK	SW6010D
Barium	191	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	1.48	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	29.7	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	0.20	0.07	mg/Kg	5	03/08/21	RS	SW7471B
Lead	126	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	84		%		03/05/21	AN	SW846-%Solid
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA PAH	Completed				03/05/21	R/M	SW3546
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	03/08/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	03/08/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	71		%	5	03/08/21	JRB	50 - 150 %
% Terphenyl (surr)	83		%	5	03/08/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	390	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	03/08/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	390	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	93		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	95		%	10	03/08/21	SC	30 - 150 %
% TCMX	86		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDE	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDT	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
a-BHC	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Alachlor	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	03/08/21	AW	SW8081B
b-BHC	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	03/08/21	AW	SW8081B
d-BHC	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	03/08/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	03/08/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	03/08/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	69		%	2	03/08/21	AW	30 - 150 %
% DCBP (Confirmation)	77		%	2	03/08/21	AW	30 - 150 %
% TCMX	64		%	2	03/08/21	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	03/08/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	03/06/21	WB	SW8270D
Anthracene	290	270	ug/Kg	1	03/06/21	WB	SW8270D
Benz(a)anthracene	710	270	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(a)pyrene	800	270	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(b)fluoranthene	660	270	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(ghi)perylene	500	270	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(k)fluoranthene	590	270	ug/Kg	1	03/06/21	WB	SW8270D
Chrysene	720	270	ug/Kg	1	03/06/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	03/06/21	WB	SW8270D
Fluoranthene	1400	270	ug/Kg	1	03/06/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	03/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	590	270	ug/Kg	1	03/06/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	03/06/21	WB	SW8270D
Phenanthrene	950	270	ug/Kg	1	03/06/21	WB	SW8270D
Pyrene	1200	270	ug/Kg	1	03/06/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	73		%	1	03/06/21	WB	30 - 130 %
% Nitrobenzene-d5	73		%	1	03/06/21	WB	30 - 130 %
% Terphenyl-d14	86		%	1	03/06/21	WB	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21

Time

8:15

03/05/21

13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73114

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.46	0.46	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	3.47	0.92	mg/Kg	1	03/06/21	EK	SW6010D
Barium	146	0.46	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	1.33	0.46	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	23.2	0.46	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	< 0.09	0.09	mg/Kg	5	03/08/21	RS	SW7471B
Lead	63.3	0.46	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.8	1.8	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	70		%		03/05/21	AN	SW846-%Solid
Corrosivity	Negative		Pos/Neg	1	03/05/21	AP	SW846-Corr
pH at 25C - Soil	7.06	1.00	pH Units	1	03/05/21 21:17	AP	SW846 9045D
Reactivity Cyanide	< 7	7	mg/Kg	1	03/08/21	LS	SW846 7.3.3.1/90
Reactivity Sulfide	< 20	20	mg/Kg	1	03/08/21	ARG	SW846 CH7
Reactivity	Negative		Pos/Neg	1	03/08/21	ARG	SW846-React
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA	Completed				03/05/21	R/M	SW3546
Paint Filter Test	Passed		PASS/FAIL		03/05/21	R	SW9095B
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	350	mg/Kg	5	03/08/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	03/08/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	61	%	5	03/08/21	JRB	50 - 150 %
% Terphenyl (surr)	60	%	5	03/08/21	JRB	50 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Polychlorinated Biphenyls</u>							
PCB-1016	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1248	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	470	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	92		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	83		%	10	03/08/21	SC	30 - 150 %
% TCMX	82		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	84		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDE	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDT	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
a-BHC	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Alachlor	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Aldrin	ND	4.7	ug/Kg	2	03/08/21	AW	SW8081B
b-BHC	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Chlordane	74	47	ug/Kg	2	03/08/21	AW	SW8081B
d-BHC	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Dieldrin	ND	4.7	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan I	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan II	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan sulfate	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Endrin	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Endrin aldehyde	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Endrin ketone	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
g-BHC	ND	1.9	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor epoxide	ND	9.4	ug/Kg	2	03/08/21	AW	SW8081B
Methoxychlor	ND	47	ug/Kg	2	03/08/21	AW	SW8081B
Toxaphene	ND	190	ug/Kg	2	03/08/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	03/08/21	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	03/08/21	AW	30 - 150 %
% TCMX	55		%	2	03/08/21	AW	30 - 150 %
% TCMX (Confirmation)	58		%	2	03/08/21	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,1,1-Trichloroethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	8.1	ug/Kg	1	03/06/21	JLI	SW8260
1,1,2-Trichloroethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,1-Dichloroethene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,1-Dichloropropene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,2,3-Trichlorobenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,2,3-Trichloropropane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,2,4-Trichlorobenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,2,4-Trimethylbenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dibromoethane	ND	1.3	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dichlorobenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dichloroethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dichloropropane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,3,5-Trimethylbenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,3-Dichlorobenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,3-Dichloropropane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
1,4-Dichlorobenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
2,2-Dichloropropane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
2-Chlorotoluene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
2-Hexanone	ND	67	ug/Kg	1	03/06/21	JLI	SW8260
2-Isopropyltoluene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
4-Chlorotoluene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
4-Methyl-2-pentanone	ND	67	ug/Kg	1	03/06/21	JLI	SW8260
Acetone	ND	670	ug/Kg	1	03/06/21	JLI	SW8260
Acrylonitrile	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Benzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Bromobenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Bromochloromethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Bromodichloromethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Bromoform	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Bromomethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Carbon Disulfide	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Carbon tetrachloride	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Chlorobenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Chloroethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Chloroform	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Chloromethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
cis-1,2-Dichloroethene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
cis-1,3-Dichloropropene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Dibromochloromethane	ND	8.1	ug/Kg	1	03/06/21	JLI	SW8260
Dibromomethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Dichlorodifluoromethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Ethylbenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Hexachlorobutadiene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Isopropylbenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
m&p-Xylene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Methyl Ethyl Ketone	ND	81	ug/Kg	1	03/06/21	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	27	ug/Kg	1	03/06/21	JLI	SW8260
Methylene chloride	ND	27	ug/Kg	1	03/06/21	JLI	SW8260
Naphthalene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
n-Propylbenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
o-Xylene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
p-Isopropyltoluene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
sec-Butylbenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Styrene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
tert-Butylbenzene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Tetrachloroethene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Tetrahydrofuran (THF)	ND	27	ug/Kg	1	03/06/21	JLI	SW8260
Toluene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Total Xylenes	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
trans-1,2-Dichloroethene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
trans-1,3-Dichloropropene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	27	ug/Kg	1	03/06/21	JLI	SW8260
Trichloroethene	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Trichlorofluoromethane	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
Trichlorotrifluoroethane	ND	27	ug/Kg	1	03/06/21	JLI	SW8260
Vinyl chloride	ND	13	ug/Kg	1	03/06/21	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	98		%	1	03/06/21	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	03/06/21	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	03/06/21	JLI	70 - 130 %
% Toluene-d8	99		%	1	03/06/21	JLI	70 - 130 %
<u>Semivolatiles</u>							
1,2,4,5-Tetrachlorobenzene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
1,2,4-Trichlorobenzene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
1,2-Dichlorobenzene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
1,2-Diphenylhydrazine	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
1,3-Dichlorobenzene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
1,4-Dichlorobenzene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2,4,5-Trichlorophenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2,4,6-Trichlorophenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2,4-Dichlorophenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2,4-Dimethylphenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2,4-Dinitrophenol	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
2,4-Dinitrotoluene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2,6-Dinitrotoluene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2-Chloronaphthalene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2-Chlorophenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2-Methylnaphthalene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2-Methylphenol (o-cresol)	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
2-Nitroaniline	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
2-Nitrophenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
3,3'-Dichlorobenzidine	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
3-Nitroaniline	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
4,6-Dinitro-2-methylphenol	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
4-Bromophenyl phenyl ether	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
4-Chloro-3-methylphenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chloroaniline	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
4-Chlorophenyl phenyl ether	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
4-Nitroaniline	ND	760	ug/Kg	1	03/06/21	WB	SW8270D
4-Nitrophenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthylene	410	330	ug/Kg	1	03/06/21	WB	SW8270D
Acetophenone	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Aniline	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
Anthracene	570	330	ug/Kg	1	03/06/21	WB	SW8270D
Benz(a)anthracene	2700	330	ug/Kg	1	03/06/21	WB	SW8270D
Benzidine	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(a)pyrene	2900	330	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(b)fluoranthene	2500	330	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(ghi)perylene	1900	330	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(k)fluoranthene	2100	330	ug/Kg	1	03/06/21	WB	SW8270D
Benzoic acid	ND	950	ug/Kg	1	03/06/21	WB	SW8270D
Benzyl butyl phthalate	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Bis(2-chloroethoxy)methane	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Bis(2-chloroethyl)ether	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
Bis(2-chloroisopropyl)ether	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Bis(2-ethylhexyl)phthalate	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Carbazole	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
Chrysene	2800	330	ug/Kg	1	03/06/21	WB	SW8270D
Dibenz(a,h)anthracene	350	330	ug/Kg	1	03/06/21	WB	SW8270D
Dibenzofuran	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Diethyl phthalate	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Dimethylphthalate	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Di-n-butylphthalate	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
Di-n-octylphthalate	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Fluoranthene	4600	330	ug/Kg	1	03/06/21	WB	SW8270D
Fluorene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Hexachlorobenzene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Hexachlorobutadiene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Hexachlorocyclopentadiene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Hexachloroethane	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2100	330	ug/Kg	1	03/06/21	WB	SW8270D
Isophorone	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Naphthalene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Nitrobenzene	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
N-Nitrosodimethylamine	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
N-Nitrosodi-n-propylamine	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
N-Nitrosodiphenylamine	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
Pentachloronitrobenzene	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
Pentachlorophenol	ND	470	ug/Kg	1	03/06/21	WB	SW8270D
Phenanthrene	2100	330	ug/Kg	1	03/06/21	WB	SW8270D
Phenol	ND	330	ug/Kg	1	03/06/21	WB	SW8270D
Pyrene	3900	330	ug/Kg	1	03/06/21	WB	SW8270D
Pyridine	ND	470	ug/Kg	1	03/06/21	WB	SW8270D

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol	77		%	1	03/06/21	WB	30 - 130 %
% 2-Fluorobiphenyl	67		%	1	03/06/21	WB	30 - 130 %
% 2-Fluorophenol	69		%	1	03/06/21	WB	30 - 130 %
% Nitrobenzene-d5	72		%	1	03/06/21	WB	30 - 130 %
% Phenol-d5	71		%	1	03/06/21	WB	30 - 130 %
% Terphenyl-d14	75		%	1	03/06/21	WB	30 - 130 %
Field Extraction	Completed				03/05/21		SW5035A

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.

Corrosivity is based solely on the pH analysis performed above.

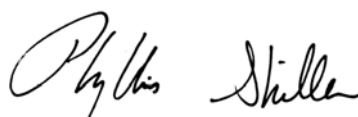
The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide. This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73115

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	1.90	0.69	mg/Kg	1	03/06/21	EK	SW6010D
Barium	68.4	0.34	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	0.70	0.34	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	15.5	0.34	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	03/08/21	RS	SW7471B
Lead	26.2	0.34	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	89		%		03/05/21	AN	SW846-%Solid
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA PAH	Completed				03/05/21	R/M	SW3546
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	03/08/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	03/08/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	67		%	5	03/08/21	JRB	50 - 150 %
% Terphenyl (surr)	84		%	5	03/08/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	03/08/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	117		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	110		%	10	03/08/21	SC	30 - 150 %
% TCMX	110		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	99		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDE	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDT	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	03/08/21	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	03/08/21	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	03/08/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	03/08/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	87		%	2	03/08/21	AW	30 - 150 %
% DCBP (Confirmation)	80		%	2	03/08/21	AW	30 - 150 %
% TCMX	75		%	2	03/08/21	AW	30 - 150 %
% TCMX (Confirmation)	72		%	2	03/08/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	03/06/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	03/06/21	WB	SW8270D
Benz(a)anthracene	460	260	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(a)pyrene	540	260	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(b)fluoranthene	400	260	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(ghi)perylene	360	260	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(k)fluoranthene	400	260	ug/Kg	1	03/06/21	WB	SW8270D
Chrysene	460	260	ug/Kg	1	03/06/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	03/06/21	WB	SW8270D
Fluoranthene	840	260	ug/Kg	1	03/06/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	03/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	360	260	ug/Kg	1	03/06/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	03/06/21	WB	SW8270D
Phenanthrene	400	260	ug/Kg	1	03/06/21	WB	SW8270D
Pyrene	830	260	ug/Kg	1	03/06/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	03/06/21	WB	30 - 130 %
% Nitrobenzene-d5	73		%	1	03/06/21	WB	30 - 130 %
% Terphenyl-d14	87		%	1	03/06/21	WB	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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The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73116

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	3.43	0.75	mg/Kg	1	03/06/21	EK	SW6010D
Barium	179	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	1.12	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	24.9	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	03/08/21	RS	SW7471B
Lead	17.9	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	93		%		03/05/21	AN	SW846-%Solid
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA PAH	Completed				03/05/21	R/M	SW3546
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	260	mg/Kg	5	03/08/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	03/08/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	66		%	5	03/08/21	JRB	50 - 150 %
% Terphenyl (surr)	87		%	5	03/08/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	03/08/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	115		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	113		%	10	03/08/21	SC	30 - 150 %
% TCMX	105		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	105		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDE	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDT	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Alachlor	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	03/08/21	AW	SW8081B
b-BHC	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	03/08/21	AW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Endrin	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	03/08/21	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	03/08/21	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	03/08/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	78		%	2	03/08/21	AW	30 - 150 %
% DCBP (Confirmation)	77		%	2	03/08/21	AW	30 - 150 %
% TCMX	74		%	2	03/08/21	AW	30 - 150 %
% TCMX (Confirmation)	72		%	2	03/08/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Benz(a)anthracene	520	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(a)pyrene	570	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(b)fluoranthene	470	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(ghi)perylene	340	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(k)fluoranthene	440	250	ug/Kg	1	03/06/21	WB	SW8270D
Chrysene	520	250	ug/Kg	1	03/06/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Fluoranthene	1100	250	ug/Kg	1	03/06/21	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	380	250	ug/Kg	1	03/06/21	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Phenanthrene	730	250	ug/Kg	1	03/06/21	WB	SW8270D
Pyrene	950	250	ug/Kg	1	03/06/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	03/06/21	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	03/06/21	WB	30 - 130 %
% Terphenyl-d14	87		%	1	03/06/21	WB	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73117

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	2.52	0.78	mg/Kg	1	03/06/21	EK	SW6010D
Barium	33.2	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	0.74	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	16.6	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	03/08/21	RS	SW7471B
Lead	4.53	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	90		%		03/05/21	AN	SW846-%Solid
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA PAH	Completed				03/05/21	R/M	SW3546
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	03/06/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	03/06/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	79		%	1	03/06/21	JRB	50 - 150 %
% Terphenyl (surr)	72		%	1	03/06/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	03/08/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	97		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	98		%	10	03/08/21	SC	30 - 150 %
% TCMX	83		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	85		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDE	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDT	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	03/08/21	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	03/08/21	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	03/08/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	03/08/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	79		%	2	03/08/21	AW	30 - 150 %
% DCBP (Confirmation)	64		%	2	03/08/21	AW	30 - 150 %
% TCMX	61		%	2	03/08/21	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	03/08/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Chrysene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Fluoranthene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Phenanthrene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Pyrene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	72		%	1	03/06/21	WB	30 - 130 %
% Nitrobenzene-d5	73		%	1	03/06/21	WB	30 - 130 %
% Terphenyl-d14	86		%	1	03/06/21	WB	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73118

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	4.16	0.78	mg/Kg	1	03/06/21	EK	SW6010D
Barium	148	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	1.32	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	24.3	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	03/08/21	RS	SW7471B
Lead	41.6	0.39	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	91		%		03/05/21	AN	SW846-%Solid
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA PAH	Completed				03/05/21	R/M	SW3546
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	03/08/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	03/08/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	55		%	5	03/08/21	JRB	50 - 150 %
% Terphenyl (surr)	53		%	5	03/08/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	03/08/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	80		%	10	03/08/21	SC	30 - 150 %
% TCMX	80		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDE	8.5	7.1	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDT	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Alachlor	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	03/09/21	AW	SW8081B
b-BHC	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	03/09/21	AW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Endrin	ND	10	ug/Kg	2	03/09/21	AW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	03/09/21	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	03/09/21	AW	SW8081B
Toxaphene	ND	140	ug/Kg	2	03/09/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	50		%	2	03/09/21	AW	30 - 150 %
% DCBP (Confirmation)	58		%	2	03/09/21	AW	30 - 150 %
% TCMX	54		%	2	03/09/21	AW	30 - 150 %
% TCMX (Confirmation)	55		%	2	03/09/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	2500	ug/Kg	10	03/06/21	WB	SW8270D
Acenaphthene	ND	2500	ug/Kg	10	03/06/21	WB	SW8270D
Acenaphthylene	ND	2500	ug/Kg	10	03/06/21	WB	SW8270D
Anthracene	ND	2500	ug/Kg	10	03/06/21	WB	SW8270D
Benz(a)anthracene	13000	2500	ug/Kg	10	03/06/21	WB	SW8270D
Benzo(a)pyrene	16000	2500	ug/Kg	10	03/06/21	WB	SW8270D
Benzo(b)fluoranthene	14000	2500	ug/Kg	10	03/06/21	WB	SW8270D
Benzo(ghi)perylene	10000	2500	ug/Kg	10	03/06/21	WB	SW8270D
Benzo(k)fluoranthene	12000	2500	ug/Kg	10	03/06/21	WB	SW8270D
Chrysene	14000	2500	ug/Kg	10	03/06/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	2500	ug/Kg	10	03/06/21	WB	SW8270D
Fluoranthene	24000	2500	ug/Kg	10	03/06/21	WB	SW8270D
Fluorene	ND	2500	ug/Kg	10	03/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	11000	2500	ug/Kg	10	03/06/21	WB	SW8270D
Naphthalene	ND	2500	ug/Kg	10	03/06/21	WB	SW8270D
Phenanthrene	8100	2500	ug/Kg	10	03/06/21	WB	SW8270D
Pyrene	22000	2500	ug/Kg	10	03/06/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	03/06/21	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	03/06/21	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	03/06/21	WB	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.

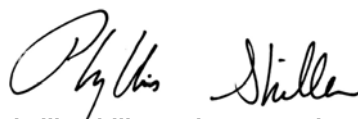
Comments:

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.

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Phyllis Shiller, Laboratory Director

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73119

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Arsenic	4.12	0.74	mg/Kg	1	03/06/21	EK	SW6010D
Barium	97.6	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Cadmium	1.17	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Chromium	25.3	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	03/08/21	RS	SW7471B
Lead	36.0	0.37	mg/Kg	1	03/06/21	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	03/06/21	EK	SW6010D
Percent Solid	91		%		03/05/21	AN	SW846-%Solid
Mercury Digestion	Completed				03/08/21		SW7471B
Extraction of ETPH	Completed				03/05/21	G/A	SW3546
Soil Extraction for PCB	Completed				03/05/21	L/A	SW3545A
Soil Extraction for Pesticide	Completed				03/05/21	L/A	SW3545A
Soil Extraction for SVOA PAH	Completed				03/05/21	R/M	SW3546
Total Metals Digest	Completed				03/05/21	J/AG/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	03/08/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	03/08/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	70		%	5	03/08/21	JRB	50 - 150 %
% Terphenyl (surr)	84		%	5	03/08/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1221	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1232	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1242	ND	360	ug/Kg	10	03/08/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1248	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1254	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1260	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1262	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
PCB-1268	ND	360	ug/Kg	10	03/08/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	109		%	10	03/08/21	SC	30 - 150 %
% DCBP (Confirmation)	118		%	10	03/08/21	SC	30 - 150 %
% TCMX	100		%	10	03/08/21	SC	30 - 150 %
% TCMX (Confirmation)	97		%	10	03/08/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDE	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
4,4' -DDT	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	03/08/21	AW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Chlordane	ND	36	ug/Kg	2	03/08/21	AW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	03/08/21	AW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	03/08/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	03/08/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	03/08/21	AW	30 - 150 %
% DCBP (Confirmation)	73		%	2	03/08/21	AW	30 - 150 %
% TCMX	70		%	2	03/08/21	AW	30 - 150 %
% TCMX (Confirmation)	72		%	2	03/08/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Benz(a)anthracene	390	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(a)pyrene	470	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(b)fluoranthene	350	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(ghi)perylene	320	250	ug/Kg	1	03/06/21	WB	SW8270D
Benzo(k)fluoranthene	380	250	ug/Kg	1	03/06/21	WB	SW8270D
Chrysene	400	250	ug/Kg	1	03/06/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Fluoranthene	710	250	ug/Kg	1	03/06/21	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	320	250	ug/Kg	1	03/06/21	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	03/06/21	WB	SW8270D
Phenanthrene	320	250	ug/Kg	1	03/06/21	WB	SW8270D
Pyrene	660	250	ug/Kg	1	03/06/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	72		%	1	03/06/21	WB	30 - 130 %
% Nitrobenzene-d5	66		%	1	03/06/21	WB	30 - 130 %
% Terphenyl-d14	86		%	1	03/06/21	WB	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21

Time

8:15

03/05/21

13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73120

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		03/05/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/05/21	L/E	SW3545A

Pesticides

4,4' -DDD	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDE	56	8.4	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDT	16	8.4	ug/Kg	2	03/09/21	AW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Alachlor	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	03/09/21	AW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	03/09/21	AW	SW8081B
d-BHC	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Endrin	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	03/09/21	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	03/09/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	03/09/21	AW	SW8081B

QA/QC Surrogates

% DCBP	74	%	2	03/09/21	AW	30 - 150 %
% DCBP (Confirmation)	60	%	2	03/09/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	68		%	2	03/09/21	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	03/09/21	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73122

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		03/05/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/05/21	L/E	SW3545A

Pesticides

4,4' -DDD	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDE	50	8.7	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDT	50	8.7	ug/Kg	2	03/09/21	AW	SW8081B
a-BHC	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Alachlor	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Aldrin	ND	4.4	ug/Kg	2	03/09/21	AW	SW8081B
b-BHC	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Chlordane	ND	44	ug/Kg	2	03/09/21	AW	SW8081B
d-BHC	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Dieldrin	ND	4.4	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan I	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan II	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan sulfate	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Endrin	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Endrin aldehyde	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Endrin ketone	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor epoxide	ND	8.7	ug/Kg	2	03/09/21	AW	SW8081B
Methoxychlor	ND	44	ug/Kg	2	03/09/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	03/09/21	AW	SW8081B

QA/QC Surrogates

% DCBP	69		%	2	03/09/21	AW	30 - 150 %
% DCBP (Confirmation)	61		%	2	03/09/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	61		%	2	03/09/21	AW	30 - 150 %
% TCMX (Confirmation)	61		%	2	03/09/21	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73126

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	71		%		03/10/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/10/21	L/N	SW3545A

Pesticides

4,4' -DDD	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
4,4' -DDE	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
4,4' -DDT	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
a-BHC	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Alachlor	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Aldrin	ND	4.6	ug/Kg	2	03/11/21	AW	SW8081B
b-BHC	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Chlordane	ND	46	ug/Kg	2	03/11/21	AW	SW8081B
d-BHC	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Dieldrin	ND	4.6	ug/Kg	2	03/11/21	AW	SW8081B
Endosulfan I	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Endosulfan II	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Endosulfan sulfate	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Endrin	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Endrin aldehyde	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Endrin ketone	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	03/11/21	AW	SW8081B
Heptachlor	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Heptachlor epoxide	ND	9.2	ug/Kg	2	03/11/21	AW	SW8081B
Methoxychlor	ND	46	ug/Kg	2	03/11/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	03/11/21	AW	SW8081B

QA/QC Surrogates

% DCBP	86	%	2	03/11/21	AW	30 - 150 %
% DCBP (Confirmation)	45	%	2	03/11/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	70		%	2	03/11/21	AW	30 - 150 %
% TCMX (Confirmation)	71		%	2	03/11/21	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73128

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	69		%		03/10/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/10/21	L/N	SW3545A

Pesticides

4,4' -DDD	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
4,4' -DDE	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
4,4' -DDT	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
a-BHC	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Alachlor	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Aldrin	ND	4.8	ug/Kg	2	03/11/21	AW	SW8081B
b-BHC	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Chlordane	ND	48	ug/Kg	2	03/11/21	AW	SW8081B
d-BHC	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Dieldrin	ND	4.8	ug/Kg	2	03/11/21	AW	SW8081B
Endosulfan I	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Endosulfan II	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Endosulfan sulfate	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Endrin	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Endrin aldehyde	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Endrin ketone	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
g-BHC	ND	1.9	ug/Kg	2	03/11/21	AW	SW8081B
Heptachlor	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Heptachlor epoxide	ND	9.6	ug/Kg	2	03/11/21	AW	SW8081B
Methoxychlor	ND	48	ug/Kg	2	03/11/21	AW	SW8081B
Toxaphene	ND	190	ug/Kg	2	03/11/21	AW	SW8081B

QA/QC Surrogates

% DCBP	91	%	2	03/11/21	AW	30 - 150 %
% DCBP (Confirmation)	45	%	2	03/11/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	77		%	2	03/11/21	AW	30 - 150 %
% TCMX (Confirmation)	73		%	2	03/11/21	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73129

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		03/05/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/05/21	L/E	SW3545A

Pesticides

4,4' -DDD	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDE	61	8.3	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDT	46	8.3	ug/Kg	2	03/09/21	AW	SW8081B
a-BHC	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	03/09/21	AW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	03/09/21	AW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endrin	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	03/09/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	03/09/21	AW	SW8081B

QA/QC Surrogates

% DCBP	68		%	2	03/09/21	AW	30 - 150 %
% DCBP (Confirmation)	63		%	2	03/09/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	65		%	2	03/09/21	AW	30 - 150 %
% TCMX (Confirmation)	62		%	2	03/09/21	AW	30 - 150 %
Client MS/MSD	Completed				03/06/21		

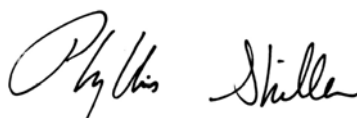
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73131

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	80		%		03/05/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/05/21	L/E	SW3545A

Pesticides

4,4' -DDD	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDE	87	41	ug/Kg	10	03/09/21	AW	SW8081B
4,4' -DDT	67	8.3	ug/Kg	2	03/09/21	AW	SW8081B
a-BHC	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Aldrin	ND	4.1	ug/Kg	2	03/09/21	AW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Chlordane	49	41	ug/Kg	2	03/09/21	AW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endrin	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	03/09/21	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	03/09/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	03/09/21	AW	SW8081B

QA/QC Surrogates

% DCBP	64		%	2	03/09/21	AW	30 - 150 %
% DCBP (Confirmation)	61		%	2	03/09/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	63		%	2	03/09/21	AW	30 - 150 %
% TCMX (Confirmation)	63		%	2	03/09/21	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73133

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		03/05/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/05/21	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDE	110	39	ug/Kg	10	03/09/21	AW	SW8081B
4,4' -DDT	77	7.8	ug/Kg	2	03/09/21	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	03/09/21	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Chlordane	66	39	ug/Kg	2	03/09/21	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor epoxide	11	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	03/09/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	03/09/21	AW	SW8081B

QA/QC Surrogates

% DCBP	63		%	2	03/09/21	AW	30 - 150 %
% DCBP (Confirmation)	57		%	2	03/09/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	66		%	2	03/09/21	AW	30 - 150 %
% TCMX (Confirmation)	64		%	2	03/09/21	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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73135

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		03/05/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/05/21	L/E	SW3545A

Pesticides

4,4' -DDD	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDE	97	43	ug/Kg	10	03/11/21	AW	SW8081B
4,4' -DDT	61	8.6	ug/Kg	2	03/09/21	AW	SW8081B
a-BHC	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	03/09/21	AW	SW8081B
b-BHC	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Chlordane	54	43	ug/Kg	2	03/09/21	AW	SW8081B
d-BHC	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Endrin	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor epoxide	10	8.6	ug/Kg	2	03/09/21	AW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	03/09/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	03/09/21	AW	SW8081B

QA/QC Surrogates

% DCBP	64		%	2	03/09/21	AW	30 - 150 %
% DCBP (Confirmation)	63		%	2	03/09/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	60		%	2	03/09/21	AW	30 - 150 %
% TCMX (Confirmation)	60		%	2	03/09/21	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Comments:

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Phyllis Shiller, Laboratory Director

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73137

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		03/05/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/05/21	L/E	SW3545A

Pesticides

4,4' -DDD	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDE	78	7.8	ug/Kg	2	03/09/21	AW	SW8081B
4,4' -DDT	52	7.8	ug/Kg	2	03/09/21	AW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	03/09/21	AW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	03/09/21	AW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	03/09/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	03/09/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	03/09/21	AW	SW8081B

QA/QC Surrogates

% DCBP	63		%	2	03/09/21	AW	30 - 150 %
% DCBP (Confirmation)	56		%	2	03/09/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	62		%	2	03/09/21	AW	30 - 150 %
% TCMX (Confirmation)	60		%	2	03/09/21	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73139

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	03/06/21	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	03/06/21	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	03/06/21	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	03/06/21	JLI	SW8260
Benzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	03/06/21	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	03/06/21	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Styrene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	03/06/21	JLI	SW8260
Toluene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	03/06/21	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	03/06/21	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	03/06/21	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	03/06/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	03/06/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (50x)	99		%	50	03/06/21	JLI	70 - 130 %
Field Extraction	Completed				03/05/21		SW5035A

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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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

April 06, 2021

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

April 06, 2021

FOR: Attn: Ms. Stefanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

03/05/21
03/05/21

Time

8:15
13:35

Laboratory Data

SDG ID: GCH73111
Phoenix ID: CH73140

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-30

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	03/06/21	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dibromoethane	ND	0.50	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	03/06/21	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	03/06/21	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	03/06/21	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	03/06/21	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	03/06/21	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	03/06/21	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	03/06/21	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	03/06/21	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	03/06/21	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	03/06/21	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	03/06/21	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	03/06/21	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	03/06/21	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	03/06/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	03/06/21	JLI	70 - 130 %
Field Extraction	Completed				03/05/21		SW5035A

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

April 06, 2021

Reviewed and Released by: Phyllis Shiller, Laboratory Director



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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

April 06, 2021

QA/QC Data

SDG I.D.: GCH73111

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 565884 (mg/kg), QC Sample No: CH73367 2X (CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	97.7	101	3.3	95.3	90.3	5.4	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 565788 (mg/kg), QC Sample No: CH73112 (CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119)

ICP Metals - Soil

Arsenic	BRL	0.67	2.56	2.25	NC	97.0	108	10.7	91.0			75 - 125	35
Barium	BRL	0.33	74.0	67.9	8.60	93.9	100	6.3	82.9			75 - 125	35
Cadmium	BRL	0.33	0.80	0.83	NC	108	109	0.9	89.6			75 - 125	35
Chromium	BRL	0.33	18.9	18.7	1.10	100	107	6.8	90.2			75 - 125	35
Lead	BRL	0.33	10.1	8.85	13.2	91.7	104	12.6	91.1			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.6	NC	104	110	5.6	92.5			75 - 125	35
Silver	BRL	0.33	<0.38	<0.40	NC	86.3	101	15.7	90.4			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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QA/QC Report

April 06, 2021

QA/QC Data

SDG I.D.: GCH73111

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 565869 (mg/Kg), QC Sample No: CH73356 5X (CH73114)													
Reactivity Cyanide	BRL	5	<5	<5.2	NC	97.5						85 - 115	30
Reactivity Sulfide	BRL	20	<20	<20	NC	90.8						80 - 120	30
QA/QC Batch 565833 (PH), QC Sample No: CH69532 (CH73114)													
pH at 25C - Soil			7.39	7.43	0.50	98.1						85 - 115	20



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QA/QC Report

April 06, 2021

QA/QC Data

SDG I.D.: GCH73111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 565756 (mg/Kg), QC Sample No: CH73114 (CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	93	87	6.7	47	45	4.3	60 - 120	30	m
% COD (surr)	84	%	115	112	2.6	59	53	10.7	50 - 150	30	
% Terphenyl (surr)	79	%	81	79	2.5	87	88	1.1	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 565775 (ug/Kg), QC Sample No: CH72962 2X (CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	89	79	11.9	75	94	22.5	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	90	92	2.2	74	94	23.8	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	73	%	89	82	8.2	72	92	24.4	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm)	76	%	91	83	9.2	73	92	23.0	30 - 150	30	
% TCMX (Surrogate Rec)	69	%	86	78	9.8	71	92	25.8	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm)	74	%	86	76	12.3	71	91	24.7	30 - 150	30	

QA/QC Batch 565776 (ug/Kg), QC Sample No: CH72962 2X (CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119)

Pesticides - Soil

4,4' -DDD	ND	1.7	85			69	73	5.6	40 - 140	30	
4,4' -DDE	ND	1.7	86			66	69	4.4	40 - 140	30	
4,4' -DDT	ND	1.7	83			72	73	1.4	40 - 140	30	
a-BHC	ND	1.0	71			57	64	11.6	40 - 140	30	
Alachlor	ND	3.3	NA			NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	81			60	63	4.9	40 - 140	30	
b-BHC	ND	1.0	73			55	60	8.7	40 - 140	30	
Chlordane	ND	33	81			71	71	0.0	40 - 140	30	
d-BHC	ND	3.3	87			67	72	7.2	40 - 140	30	
Dieldrin	ND	1.0	86			66	69	4.4	40 - 140	30	
Endosulfan I	ND	3.3	90			68	69	1.5	40 - 140	30	
Endosulfan II	ND	3.3	93			72	71	1.4	40 - 140	30	
Endosulfan sulfate	ND	3.3	90			72	72	0.0	40 - 140	30	
Endrin	ND	3.3	88			70	73	4.2	40 - 140	30	
Endrin aldehyde	ND	3.3	79			66	60	9.5	40 - 140	30	

QA/QC Data

SDG I.D.: GCH73111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endrin ketone	ND	3.3	86			70	71	1.4	40 - 140	30
g-BHC	ND	1.0	76			78	70	10.8	40 - 140	30
Heptachlor	ND	3.3	80			76	77	1.3	40 - 140	30
Heptachlor epoxide	ND	3.3	82			61	67	9.4	40 - 140	30
Methoxychlor	ND	3.3	90			73	88	18.6	40 - 140	30
Toxaphene	ND	130	NA			NA	NA	NC	40 - 140	30
% DCBP	78	%	89			69	75	8.3	30 - 150	30
% DCBP (Confirmation)	84	%	89			74	74	0.0	30 - 150	30
% TCMX	61	%	73			58	62	6.7	30 - 150	30
% TCMX (Confirmation)	60	%	67			58	64	9.8	30 - 150	30

Comment:

This batch consists of a Blank, LCS, MS and MSD.

QA/QC Batch 565763 (ug/Kg), QC Sample No: CH73129 2X (CH73120, CH73122, CH73129, CH73131, CH73133, CH73135, CH73137)

Pesticides - Soil

4,4' -DDD	ND	1.7	63	69	9.1	73	58	22.9	40 - 140	30	
4,4' -DDE	ND	1.7	65	69	6.0	79	46	52.8	40 - 140	30	r
4,4' -DDT	ND	1.7	65	67	3.0	72	58	21.5	40 - 140	30	
a-BHC	ND	1.0	60	60	0.0	68	57	17.6	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	61	65	6.3	70	63	10.5	40 - 140	30	
b-BHC	ND	1.0	57	61	6.8	64	57	11.6	40 - 140	30	
Chlordane	ND	33	62	66	6.3	77	67	13.9	40 - 140	30	
d-BHC	ND	3.3	65	70	7.4	76	53	35.7	40 - 140	30	r
Dieldrin	ND	1.0	66	70	5.9	72	59	19.8	40 - 140	30	
Endosulfan I	ND	3.3	66	66	0.0	74	68	8.5	40 - 140	30	
Endosulfan II	ND	3.3	66	70	5.9	74	64	14.5	40 - 140	30	
Endosulfan sulfate	ND	3.3	68	72	5.7	74	65	12.9	40 - 140	30	
Endrin	ND	3.3	67	71	5.8	78	65	18.2	40 - 140	30	
Endrin aldehyde	ND	3.3	57	59	3.4	58	51	12.8	40 - 140	30	
Endrin ketone	ND	3.3	66	73	10.1	74	60	20.9	40 - 140	30	
g-BHC	ND	1.0	60	64	6.5	65	59	9.7	40 - 140	30	
Heptachlor	ND	3.3	61	65	6.3	68	61	10.9	40 - 140	30	
Heptachlor epoxide	ND	3.3	63	67	6.2	69	58	17.3	40 - 140	30	
Methoxychlor	ND	3.3	68	72	5.7	71	60	16.8	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	63	%	71	71	0.0	74	65	12.9	30 - 150	30	
% DCBP (Confirmation)	66	%	71	67	5.8	78	70	10.8	30 - 150	30	
% TCMX	55	%	56	59	5.2	64	59	8.1	30 - 150	30	
% TCMX (Confirmation)	55	%	56	56	0.0	67	63	6.2	30 - 150	30	

QA/QC Batch 566241 (ug/Kg), QC Sample No: CH74519 2X (CH73126, CH73128)

Pesticides - Soil

4,4' -DDD	ND	1.7	73	63	14.7	103	77	28.9	40 - 140	30	
4,4' -DDE	ND	1.7	72	61	16.5	99	73	30.2	40 - 140	30	
4,4' -DDT	ND	1.7	72	68	5.7	89	67	28.2	40 - 140	30	
a-BHC	ND	1.0	66	63	4.7	102	64	45.8	40 - 140	30	r
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	64	67	4.6	87	68	24.5	40 - 140	30	
b-BHC	ND	1.0	61	59	3.3	81	61	28.2	40 - 140	30	
Chlordane	ND	33	67	61	9.4	93	69	29.6	40 - 140	30	
d-BHC	ND	3.3	72	75	4.1	91	73	22.0	40 - 140	30	
Dieldrin	ND	1.0	73	63	14.7	102	75	30.5	40 - 140	30	

QA/QC Data

SDG I.D.: GCH73111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Endosulfan I	ND	3.3	71	65	8.8	97	74	26.9	40 - 140	30	
Endosulfan II	ND	3.3	77	67	13.9	105	76	32.0	40 - 140	30	r
Endosulfan sulfate	ND	3.3	75	70	6.9	100	76	27.3	40 - 140	30	
Endrin	ND	3.3	76	69	9.7	106	78	30.4	40 - 140	30	
Endrin aldehyde	ND	3.3	63	60	4.9	75	51	38.1	40 - 140	30	r
Endrin ketone	ND	3.3	74	70	5.6	97	74	26.9	40 - 140	30	
g-BHC	ND	1.0	65	63	3.1	94	73	25.1	40 - 140	30	
Heptachlor	ND	3.3	66	64	3.1	88	72	20.0	40 - 140	30	
Heptachlor epoxide	ND	3.3	68	63	7.6	95	68	33.1	40 - 140	30	r
Methoxychlor	ND	3.3	74	69	7.0	100	77	26.0	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	79	%	74	65	12.9	88	72	20.0	30 - 150	30	
% DCBP (Confirmation)	69	%	65	78	18.2	92	79	15.2	30 - 150	30	
% TCMX	59	%	55	55	0.0	71	59	18.5	30 - 150	30	
% TCMX (Confirmation)	59	%	53	59	10.7	71	65	8.8	30 - 150	30	

QA/QC Batch 565754 (ug/kg), QC Sample No: CH72962 (CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	76	74	2.7	69			40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	72	74	2.7	71			40 - 140	30	
1,2-Dichlorobenzene	ND	180	67	72	7.2	71			40 - 140	30	
1,2-Diphenylhydrazine	ND	230	81	81	0.0	72			40 - 140	30	
1,3-Dichlorobenzene	ND	230	66	71	7.3	68			40 - 140	30	
1,4-Dichlorobenzene	ND	230	65	70	7.4	67			40 - 140	30	
2,4,5-Trichlorophenol	ND	230	94	96	2.1	86			40 - 140	30	
2,4,6-Trichlorophenol	ND	130	94	96	2.1	87			30 - 130	30	
2,4-Dichlorophenol	ND	130	88	86	2.3	80			30 - 130	30	
2,4-Dimethylphenol	ND	230	90	88	2.2	80			30 - 130	30	
2,4-Dinitrophenol	ND	230	85	70	19.4	86			30 - 130	30	
2,4-Dinitrotoluene	ND	130	108	109	0.9	93			30 - 130	30	
2,6-Dinitrotoluene	ND	130	98	101	3.0	88			40 - 140	30	
2-Chloronaphthalene	ND	230	84	86	2.4	77			40 - 140	30	
2-Chlorophenol	ND	230	81	84	3.6	80			30 - 130	30	
2-Methylnaphthalene	ND	230	78	78	0.0	74			40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	85	89	4.6	83			40 - 140	30	
2-Nitroaniline	ND	330	150	150	0.0	127			40 - 140	30	i
2-Nitrophenol	ND	230	84	84	0.0	78			40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	90	91	1.1	84			30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	78	78	0.0	65			40 - 140	30	
3-Nitroaniline	ND	330	103	106	2.9	88			40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	86	84	2.4	81			30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	89	89	0.0	78			40 - 140	30	
4-Chloro-3-methylphenol	ND	230	94	89	5.5	82			30 - 130	30	
4-Chloroaniline	ND	230	69	75	8.3	62			40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	89	90	1.1	79			40 - 140	30	
4-Nitroaniline	ND	230	98	98	0.0	86			40 - 140	30	
4-Nitrophenol	ND	230	101	97	4.0	92			30 - 130	30	
Acenaphthene	ND	230	83	82	1.2	75			30 - 130	30	
Acenaphthylene	ND	130	76	78	2.6	43			40 - 140	30	
Acetophenone	ND	230	71	73	2.8	70			40 - 140	30	
Aniline	ND	330	51	55	7.5	48			40 - 140	30	
Anthracene	ND	230	84	84	0.0	64			40 - 140	30	

QA/QC Data

SDG I.D.: GCH73111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benz(a)anthracene	ND	230	87	86	1.2	NC			40 - 140	30	
Benztidine	ND	330	50	50	0.0	<10			40 - 140	30	m
Benzo(a)pyrene	ND	130	94	94	0.0	NC			40 - 140	30	
Benzo(b)fluoranthene	ND	160	86	87	1.2	NC			40 - 140	30	
Benzo(ghi)perylene	ND	230	87	86	1.2	NC			40 - 140	30	
Benzo(k)fluoranthene	ND	230	83	83	0.0	NC			40 - 140	30	
Benzoic Acid	ND	670	71	46	42.7	75			30 - 130	30	r
Benzyl butyl phthalate	ND	230	97	98	1.0	82			40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	81	79	2.5	74			40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	58	60	3.4	62			40 - 140	30	
Bis(2-chloroisopropyl)ether	ND	230	60	64	6.5	60			40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	96	97	1.0	83			40 - 140	30	
Carbazole	ND	230	94	91	3.2	85			40 - 140	30	
Chrysene	ND	230	86	86	0.0	NC			40 - 140	30	
Dibenz(a,h)anthracene	ND	130	88	87	1.1	43			40 - 140	30	
Dibenzofuran	ND	230	85	87	2.3	79			40 - 140	30	
Diethyl phthalate	ND	230	87	90	3.4	79			40 - 140	30	
Dimethylphthalate	ND	230	88	89	1.1	79			40 - 140	30	
Di-n-butylphthalate	ND	670	96	95	1.0	79			40 - 140	30	
Di-n-octylphthalate	ND	230	101	100	1.0	89			40 - 140	30	
Fluoranthene	ND	230	89	86	3.4	NC			40 - 140	30	
Fluorene	ND	230	84	84	0.0	75			40 - 140	30	
Hexachlorobenzene	ND	130	88	87	1.1	75			40 - 140	30	
Hexachlorobutadiene	ND	230	73	73	0.0	71			40 - 140	30	
Hexachlorocyclopentadiene	ND	230	59	58	1.7	37			40 - 140	30	m
Hexachloroethane	ND	130	64	70	9.0	67			40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	89	87	2.3	NC			40 - 140	30	
Isophorone	ND	130	72	70	2.8	64			40 - 140	30	
Naphthalene	ND	230	71	72	1.4	71			40 - 140	30	
Nitrobenzene	ND	130	75	77	2.6	73			40 - 140	30	
N-Nitrosodimethylamine	ND	230	62	69	10.7	64			40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	77	80	3.8	73			40 - 140	30	
N-Nitrosodiphenylamine	ND	130	87	88	1.1	77			40 - 140	30	
Pentachloronitrobenzene	ND	230	90	88	2.2	76			40 - 140	30	
Pentachlorophenol	ND	230	95	93	2.1	93			30 - 130	30	
Phenanthrene	ND	130	84	84	0.0	73			40 - 140	30	
Phenol	ND	230	88	89	1.1	87			30 - 130	30	
Pyrene	ND	230	87	86	1.2	NC			30 - 130	30	
Pyridine	ND	230	46	50	8.3	47			40 - 140	30	
% 2,4,6-Tribromophenol	91	%	89	94	5.5	85			30 - 130	30	
% 2-Fluorobiphenyl	77	%	75	79	5.2	70			30 - 130	30	
% 2-Fluorophenol	75	%	72	76	5.4	73			30 - 130	30	
% Nitrobenzene-d5	75	%	72	73	1.4	69			30 - 130	30	
% Phenol-d5	79	%	79	81	2.5	75			30 - 130	30	
% Terphenyl-d14	90	%	92	92	0.0	81			30 - 130	30	

Comment:

This batch consists of a Blank, LCS, LCSD and MS.

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 565922 (ug/kg), QC Sample No: CH73278 (CH73114, CH73140)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	105	102	2.9	95	93	2.1	70 - 130	30

QA/QC Data

SDG I.D.: GCH73111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1-Trichloroethane	ND	5.0	97	95	2.1	92	90	2.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	102	98	4.0	90	90	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	93	90	3.3	84	84	0.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	98	95	3.1	90	86	4.5	70 - 130	30
1,1-Dichloroethene	ND	5.0	91	88	3.4	83	81	2.4	70 - 130	30
1,1-Dichloropropene	ND	5.0	93	91	2.2	90	87	3.4	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	94	92	2.2	82	76	7.6	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	96	94	2.1	84	84	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	94	91	3.2	80	71	11.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	96	93	3.2	89	84	5.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	111	106	4.6	95	96	1.0	70 - 130	30
1,2-Dibromoethane	ND	5.0	99	95	4.1	87	86	1.2	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	94	91	3.2	84	79	6.1	70 - 130	30
1,2-Dichloroethane	ND	5.0	91	89	2.2	81	80	1.2	70 - 130	30
1,2-Dichloropropane	ND	5.0	98	96	2.1	91	89	2.2	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	96	93	3.2	90	85	5.7	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	96	93	3.2	85	80	6.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	98	95	3.1	87	86	1.2	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	93	90	3.3	82	76	7.6	70 - 130	30
2,2-Dichloropropane	ND	5.0	104	101	2.9	95	92	3.2	70 - 130	30
2-Chlorotoluene	ND	5.0	97	96	1.0	90	86	4.5	70 - 130	30
2-Hexanone	ND	25	105	99	5.9	86	87	1.2	70 - 130	30
2-Isopropyltoluene	ND	5.0	102	99	3.0	95	91	4.3	70 - 130	30
4-Chlorotoluene	ND	5.0	95	93	2.1	88	82	7.1	70 - 130	30
4-Methyl-2-pentanone	ND	25	104	102	1.9	92	93	1.1	70 - 130	30
Acetone	ND	10	88	82	7.1	50	51	2.0	70 - 130	30 m
Acrylonitrile	ND	5.0	101	98	3.0	77	75	2.6	70 - 130	30
Benzene	ND	1.0	96	94	2.1	90	88	2.2	70 - 130	30
Bromobenzene	ND	5.0	95	93	2.1	86	83	3.6	70 - 130	30
Bromochloromethane	ND	5.0	98	95	3.1	88	86	2.3	70 - 130	30
Bromodichloromethane	ND	5.0	101	98	3.0	90	89	1.1	70 - 130	30
Bromoform	ND	5.0	107	102	4.8	87	88	1.1	70 - 130	30
Bromomethane	ND	5.0	89	88	1.1	79	76	3.9	70 - 130	30
Carbon Disulfide	ND	5.0	106	102	3.8	91	89	2.2	70 - 130	30
Carbon tetrachloride	ND	5.0	109	106	2.8	100	98	2.0	70 - 130	30
Chlorobenzene	ND	5.0	95	93	2.1	88	85	3.5	70 - 130	30
Chloroethane	ND	5.0	81	77	5.1	72	71	1.4	70 - 130	30
Chloroform	ND	5.0	96	93	3.2	88	85	3.5	70 - 130	30
Chloromethane	ND	5.0	97	92	5.3	89	87	2.3	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	92	89	3.3	85	82	3.6	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	101	99	2.0	90	88	2.2	70 - 130	30
Dibromochloromethane	ND	3.0	111	109	1.8	95	95	0.0	70 - 130	30
Dibromomethane	ND	5.0	94	91	3.2	83	83	0.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	96	90	6.5	87	84	3.5	70 - 130	30
Ethylbenzene	ND	1.0	98	95	3.1	93	89	4.4	70 - 130	30
Hexachlorobutadiene	ND	5.0	96	94	2.1	84	78	7.4	70 - 130	30
Isopropylbenzene	ND	1.0	97	95	2.1	93	90	3.3	70 - 130	30
m&p-Xylene	ND	2.0	96	93	3.2	90	87	3.4	70 - 130	30
Methyl ethyl ketone	ND	5.0	104	98	5.9	79	80	1.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	85	82	3.6	74	73	1.4	70 - 130	30
Methylene chloride	ND	5.0	71	68	4.3	61	59	3.3	70 - 130	30 l,m
Naphthalene	ND	5.0	98	95	3.1	90	88	2.2	70 - 130	30
n-Butylbenzene	ND	1.0	98	95	3.1	89	83	7.0	70 - 130	30

QA/QC Data

SDG I.D.: GCH73111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
n-Propylbenzene	ND	1.0	97	94	3.1	92	87	5.6	70 - 130	30
o-Xylene	ND	2.0	97	95	2.1	93	89	4.4	70 - 130	30
p-Isopropyltoluene	ND	1.0	98	95	3.1	92	86	6.7	70 - 130	30
sec-Butylbenzene	ND	1.0	104	101	2.9	97	93	4.2	70 - 130	30
Styrene	ND	5.0	96	94	2.1	87	84	3.5	70 - 130	30
tert-Butylbenzene	ND	1.0	98	96	2.1	93	90	3.3	70 - 130	30
Tetrachloroethene	ND	5.0	92	90	2.2	89	84	5.8	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	99	93	6.3	84	84	0.0	70 - 130	30
Toluene	ND	1.0	95	93	2.1	91	88	3.4	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	96	93	3.2	87	85	2.3	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	101	99	2.0	87	86	1.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	126	121	4.0	95	96	1.0	70 - 130	30
Trichloroethene	ND	5.0	93	91	2.2	88	85	3.5	70 - 130	30
Trichlorofluoromethane	ND	5.0	94	91	3.2	84	82	2.4	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	97	93	4.2	90	87	3.4	70 - 130	30
Vinyl chloride	ND	5.0	95	92	3.2	89	86	3.4	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	100	99	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	98	%	100	99	1.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	99	%	102	102	0.0	101	101	0.0	70 - 130	30
% Toluene-d8	100	%	100	101	1.0	100	101	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 565922H (ug/kg), QC Sample No: CH73278 50X (CH73139 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	250	111	107	3.7	104	106	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	250	99	97	2.0	96	98	2.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	250	112	108	3.6	110	109	0.9	70 - 130	30	
1,1,2-Trichloroethane	ND	250	99	96	3.1	98	97	1.0	70 - 130	30	
1,1-Dichloroethane	ND	250	100	99	1.0	99	101	2.0	70 - 130	30	
1,1-Dichloroethene	ND	250	50	49	2.0	53	57	7.3	70 - 130	30	I,m
1,1-Dichloropropene	ND	250	100	98	2.0	100	99	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	250	107	106	0.9	106	106	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	250	105	102	2.9	105	104	1.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	250	108	108	0.0	104	105	1.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	250	105	104	1.0	104	105	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	250	115	108	6.3	118	113	4.3	70 - 130	30	
1,2-Dibromoethane	ND	250	108	104	3.8	104	104	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	250	104	102	1.9	101	102	1.0	70 - 130	30	
1,2-Dichloroethane	ND	250	97	94	3.1	94	93	1.1	70 - 130	30	
1,2-Dichloropropane	ND	250	106	103	2.9	104	103	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	250	105	103	1.9	104	104	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	250	107	106	0.9	104	104	0.0	70 - 130	30	
1,3-Dichloropropane	ND	250	106	102	3.8	103	104	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	250	104	102	1.9	100	101	1.0	70 - 130	30	
2,2-Dichloropropane	ND	250	106	103	2.9	95	100	5.1	70 - 130	30	
2-Chlorotoluene	ND	250	108	106	1.9	106	107	0.9	70 - 130	30	
2-Hexanone	ND	1300	114	109	4.5	113	111	1.8	70 - 130	30	
2-Isopropyltoluene	ND	250	111	109	1.8	111	112	0.9	70 - 130	30	
4-Chlorotoluene	ND	250	106	106	0.0	105	105	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	1300	113	107	5.5	114	111	2.7	70 - 130	30	
Acetone	ND	500	67	65	3.0	73	73	0.0	70 - 130	30	I

QA/QC Data

SDG I.D.: GCH73111

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Acrylonitrile	ND	250	106	104	1.9	109	109	0.0	70 - 130	30
Benzene	ND	250	103	101	2.0	102	102	0.0	70 - 130	30
Bromobenzene	ND	250	104	103	1.0	103	103	0.0	70 - 130	30
Bromochloromethane	ND	250	105	101	3.9	100	101	1.0	70 - 130	30
Bromodichloromethane	ND	250	103	99	4.0	96	98	2.1	70 - 130	30
Bromoform	ND	250	106	100	5.8	96	98	2.1	70 - 130	30
Bromomethane	ND	250	59	58	1.7	54	58	7.1	70 - 130	30 I,m
Carbon Disulfide	ND	250	57	57	0.0	60	65	8.0	70 - 130	30 I,m
Carbon tetrachloride	ND	250	102	99	3.0	92	98	6.3	70 - 130	30
Chlorobenzene	ND	250	104	102	1.9	102	104	1.9	70 - 130	30
Chloroethane	ND	250	31	28	10.2	28	28	0.0	70 - 130	30 I,m
Chloroform	ND	250	102	99	3.0	97	99	2.0	70 - 130	30
Chloromethane	ND	250	102	101	1.0	102	104	1.9	70 - 130	30
cis-1,2-Dichloroethene	ND	250	97	95	2.1	95	97	2.1	70 - 130	30
cis-1,3-Dichloropropene	ND	250	106	103	2.9	99	101	2.0	70 - 130	30
Dibromochloromethane	ND	150	115	110	4.4	104	107	2.8	70 - 130	30
Dibromomethane	ND	250	100	96	4.1	97	97	0.0	70 - 130	30
Dichlorodifluoromethane	ND	250	101	99	2.0	95	98	3.1	70 - 130	30
Ethylbenzene	ND	250	107	104	2.8	107	107	0.0	70 - 130	30
Hexachlorobutadiene	ND	250	109	107	1.9	108	109	0.9	70 - 130	30
Isopropylbenzene	ND	250	106	105	0.9	107	107	0.0	70 - 130	30
m&p-Xylene	ND	250	105	103	1.9	104	105	1.0	70 - 130	30
Methyl ethyl ketone	ND	250	111	105	5.6	106	102	3.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	250	90	85	5.7	82	83	1.2	70 - 130	30
Methylene chloride	ND	250	70	69	1.4	66	68	3.0	70 - 130	30 I,m
Naphthalene	ND	250	107	104	2.8	114	112	1.8	70 - 130	30
n-Butylbenzene	ND	250	109	108	0.9	106	107	0.9	70 - 130	30
n-Propylbenzene	ND	250	107	106	0.9	106	107	0.9	70 - 130	30
o-Xylene	ND	250	108	105	2.8	106	107	0.9	70 - 130	30
p-Isopropyltoluene	ND	250	108	106	1.9	107	107	0.0	70 - 130	30
sec-Butylbenzene	ND	250	113	111	1.8	113	113	0.0	70 - 130	30
Styrene	ND	250	106	103	2.9	104	104	0.0	70 - 130	30
tert-Butylbenzene	ND	250	106	105	0.9	107	108	0.9	70 - 130	30
Tetrachloroethene	ND	250	99	99	0.0	101	101	0.0	70 - 130	30
Tetrahydrofuran (THF)	ND	250	104	98	5.9	105	102	2.9	70 - 130	30
Toluene	ND	250	103	101	2.0	102	102	0.0	70 - 130	30
trans-1,2-Dichloroethene	ND	250	98	95	3.1	93	95	2.1	70 - 130	30
trans-1,3-Dichloropropene	ND	250	105	102	2.9	96	98	2.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	250	132	125	5.4	116	117	0.9	70 - 130	30 I
Trichloroethene	ND	250	99	97	2.0	99	99	0.0	70 - 130	30
Trichlorofluoromethane	ND	250	28	25	11.3	26	26	0.0	70 - 130	30 I,m
Trichlorotrifluoroethane	ND	250	56	56	0.0	62	65	4.7	70 - 130	30 I,m
Vinyl chloride	ND	250	98	97	1.0	98	100	2.0	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	99	99	0.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	98	%	100	99	1.0	99	100	1.0	70 - 130	30
% Dibromofluoromethane	93	%	97	100	3.0	97	97	0.0	70 - 130	30
% Toluene-d8	99	%	100	100	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.

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.

QA/QC Data

SDG I.D.: GCH73111

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

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
April 06, 2021

Tuesday, April 06, 2021

Criteria: None
State: CT

Sample Criteria Exceedances Report
GCH73111 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** 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: Fuss & O'Neill, Inc.

Project Location: RIVERFRONT LAND, INC.

Project Number:

Laboratory Sample ID(s): CH73111-CH73120,

Sampling Date(s): 3/5/2021

CH73122, CH73126, CH73128, CH73129, CH73131, CH73133, CH73135, CH73137, CH73139, CH73140

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?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ 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)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☒ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, PEST Narration, SVOA Narration, VOA Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☐ Yes ☒ No ☒ Yes ☐ 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?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☒ Yes ☐ 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, April 06, 2021

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

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SDG I.D.: GCH73111

SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are 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.

Cyanide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

LACHAT 03/08/21-1

Linnea Skoglund, Chemist 03/08/21

CH73114

The samples were distilled in accordance with the method.

The initial calibration met criteria.

The calibration check standards (ICV,CCV) were within 15% of true value and were analyzed at a frequency of one per ten samples.

The continuing calibration blanks (ICB,CCB) had concentrations less than the reporting level.

The method blank, laboratory control sample (LCS), and matrix spike were distilled with the samples.

QC (Batch Specific):

Batch 565869 (CH73356)

CH73114

All LCS recoveries were within 80 - 120 with the following exceptions: None.

Additional: LCS acceptance range is 80-120% for soils MS acceptance range 75-125% for soils

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 565756 (Samples: CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119): -----

The LCS/LCSD recovery is acceptable. The analytes in the site specific matrix spike recovery are below the method criteria, therefore a low bias is possible. (Ext. Petroleum H.C. (C9-C36))

Instrument:

AU-FID1 03/08/21-1

Jeff Bucko, Chemist 03/08/21

CH73111 (5X), CH73114 (5X), CH73118 (5X)

The initial calibration (ETPH205I) 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 (308A003) 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 03/08/21-1

Jeff Bucko, Chemist 03/08/21



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SDG I.D.: GCH73111

ETPH Narration

CH73112 (5X), CH73113 (5X), CH73115 (5X), CH73116 (5X), CH73119 (5X)

The initial calibration (ETPH115I) 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 (308A003_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 03/05/21-1

Jeff Bucko, Chemist 03/05/21

CH73117 (1X)

The initial calibration (ETPH204I) 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 (305A003_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 (Site Specific):

Batch 565756 (CH73114)

CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119

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: Ext. Petroleum H.C. (C9-C36)(47%)

All MSD recoveries were within 50 - 150 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(45%)

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.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 03/08/21 10:13

Rick Schweitzer, Chemist 03/08/21

CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119

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 565884 (CH73367)

CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119

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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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 03/05/21 07:59 Emily Kolominskaya, Chemist 03/05/21
CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119
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 (Site Specific):

Batch 565788 (CH73112)
CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119
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 03/08/21-1 Saadia Chudary, Chemist 03/08/21
CH73111 (10X), CH73112 (10X), CH73113 (10X), CH73114 (10X), CH73115 (10X), CH73116 (10X), CH73117 (10X), CH73118 (10X)
The initial calibration (PC1218AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1218BI) 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 03/08/21-1 Saadia Chudary, Chemist 03/08/21
CH73119 (10X)

The initial calibration (PC302AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC302BI) 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 565775 (CH72962)
CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119
All LCS recoveries were within 40 - 140 with the following exceptions: None.



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PCB 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.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 565763 (Samples: CH73120, CH73122, CH73129, CH73131, CH73133, CH73135, CH73137): ----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (4,4" -DDE, d-BHC)

Instrument:

AU-ECD4 03/11/21-1

Adam Werner, Chemist 03/11/21

CH73126 (2X), CH73128 (2X)

The initial calibration (PS215AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS215BI) 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-ECD7 03/08/21-1

Adam Werner, Chemist 03/08/21

CH73111 (2X), CH73112 (2X), CH73113 (2X), CH73114 (2X), CH73115 (2X), CH73116 (2X), CH73117 (2X), CH73118 (2X), CH73119 (2X)

The initial calibration (PS0215AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0215BI) 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: CH73118

Preceding CC 308B034 - None.

Succeeding CC 308B048 - Methoxychlor -21%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-ECD7 03/09/21-1

Adam Werner, Chemist 03/09/21

CH73120 (2X), CH73122 (2X), CH73129 (2X), CH73131 (2X, 10X), CH73133 (2X, 10X), CH73135 (2X), CH73137 (2X)

The initial calibration (PS0215AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0215BI) 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-ECD7 03/11/21-1

Adam Werner, Chemist 03/11/21

CH73135 (10X)

The initial calibration (PS0215AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0215BI) 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.



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SDG I.D.: GCH73111

PEST Narration

QC (Batch Specific):

Batch 565776 (CH72962)

CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119

All LCS recoveries were within 40 - 140 with the following exceptions: None.

This batch consists of a Blank, LCS, MS and MSD.

Batch 566241 (CH74519)

CH73126, CH73128

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 565763 (CH73129)

CH73120, CH73122, CH73129, CH73131, CH73133, CH73135, CH73137

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: 4,4'-DDE(52.8%), d-BHC(35.7%)

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 565754 (Samples: CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119): -----

The LCS/LCSD recovery is above the upper range for one analyte that was not reported in the sample(s). No significant bias is suspected. (2-Nitroaniline)

The LCS/LCSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample(s). No significant variability is suspected. (Benzoic Acid)

Instrument:

CHEM19 03/05/21-1

Matt Richard, Chemist 03/05/21

CH73111 (1X), CH73112 (10X), CH73113 (1X), CH73114 (1X), CH73115 (1X), CH73116 (1X), CH73117 (1X), CH73118 (10X), CH73119 (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_0125):

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 0.044 (0.05), 2-Nitrophenol 0.050 (0.1), Hexachlorobenzene 0.078 (0.1)



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SVOA Narration

The following compounds did not meet a minimum response factors: % 2,4,6-Tribromophenol 0.044 (0.05)

Continuing Calibration Verification (CHEM19/0305_06-19_SPLIT_0125):

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 0.055 (0.1), Hexachlorobenzene 0.086 (0.1)

The following compounds did not meet minimum response factors: None.

CHEM34 03/08/21-1

Wes Bryon, Chemist 03/08/21

CH73111 (10X)

Initial Calibration Evaluation (CHEM34/34_SPLIT_0223):

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 (CHEM34/0308_03-34_SPLIT_0223):

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 565754 (CH72962)

CH73111, CH73112, CH73113, CH73114, CH73115, CH73116, CH73117, CH73118, CH73119

All LCS recoveries were within 40 - 140 with the following exceptions: 2-Nitroaniline(150%)

All LCSD recoveries were within 40 - 140 with the following exceptions: 2-Nitroaniline(150%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Benzoic Acid(42.7%)

This batch consists of a Blank, LCS, LCSD and MS.

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

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SDG I.D.: GCH73111

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 565922 (Samples: CH73114, CH73140): -----

Several QC recoveries are below the lower range. A low bias is possible. (Methylene chloride)

QC Batch 565922H: -----

Several QC recoveries are below the lower range. A low bias is possible. (Methylene chloride, 1,1-Dichloroethene, Bromomethane, Carbon Disulfide, Trichlorotrifluoroethane)

The LCS/LCSD recovery is below the lower range. A low bias is possible. (Acetone)

The LCS recovery is above the upper range for one analyte that was not reported in the sample(s). No significant bias is suspected. (trans-1,4-dichloro-2-butene)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM26 03/05/21-2

Jane Li, Chemist 03/05/21

CH73114 (1X), CH73139 (50X), CH73140 (1X)

Initial Calibration Evaluation (CHEM26/VT-022621P):

92% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 30% (20%), Acetone 25% (20%), Bromoform 26% (20%), Methylene chloride 24% (20%), trans-1,3-Dichloropropene 23% (20%), trans-1,4-dichloro-2-butene 33% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Tetrachloroethene 0.182 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0305_10-VT-022621P):

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 565922 (CH73278)

CHEM26 3/5/2021-2

CH73114(1X), CH73140(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Methylene chloride(68%)

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 565922H (CH73278)

CHEM26 3/5/2021-2

CH73139(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(50%), Acetone(67%),



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

April 06, 2021

SDG I.D.: GCH73111

VOA Narration

Bromomethane(59%), Carbon Disulfide(57%), Chloroethane(31%), trans-1,4-dichloro-2-butene(132%), Trichlorofluoromethane(28%), Trichlorotrifluoroethane(56%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(49%), Acetone(65%), Bromomethane(58%), Carbon Disulfide(57%), Chloroethane(28%), Methylene chloride(69%), Trichlorofluoromethane(25%), Trichlorotrifluoroethane(56%)
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 4.1C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



FUSS & O'NEILL

(860) 646-2469 • www.FandO.com

- ☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ 540 North Commercial Street, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

CHAIN-OF-CUSTODY RECORD

44547

Turnaround

☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard _____ (days) *Surcharge Applies

PROJECT NAME

PROJECT LOCATION

PROJECT NUMBER

LABORATORY

RIVERFRONT LAND, INC. HARTFORD/WINDSOR, CT

REPORT TO: STEFANIE WIESSCHAEK + BRIANNA SAWYER Analysis Request

INVOICE TO:

P.O. No.:

Sampler's Signature: *[Signature]* Date: 3/5/21

Source Codes:

MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
01					1305210305-01	S	3/5/21	0815
02					-02			0830
03					-03			0835
04					-04			0850
05					-05			0900
06					-06			0840
07					-07			0945
08					-08			0950
09					-09			1000
10					-10			1012

Containers	Plastic - NaOH, 250 ml									
	Plastic - H ₂ SO ₄ , 250 ml	Plastic - HNO ₃ , 250 ml	Plastic - H ₂ SO ₄ , 250 ml	Plastic - H ₂ SO ₄ , 250 ml	Plastic - H ₂ SO ₄ , 250 ml	Plastic - H ₂ SO ₄ , 250 ml	Plastic - H ₂ SO ₄ , 250 ml	Plastic - H ₂ SO ₄ , 250 ml	Plastic - H ₂ SO ₄ , 250 ml	Plastic - H ₂ SO ₄ , 250 ml
73111										
73112										
73113										
73114										
73115										
73116										
73117										
73118										
73119										
73120										

Transfer Number	Relinquished By	Accepted By	Date	Time
1	<i>[Signature]</i>	<i>[Signature]</i>	3/5/21	13:30
2	<i>[Signature]</i>	<i>[Signature]</i>	3/5/21	13:30
3				
4				

Charge Exceptions: ☒ Tax Exempt ☒ QA/QC ☐ Other _____

☐ Duplicates ☐ Blanks (Item Nos: _____)

Reporting and Detection Limit Requirements: ☒ MCP Deliverables ☐ MCP CAM Cert.

Additional Comments:



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☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ 540 North Commercial Street, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

CHAIN-OF-CUSTODY RECORD

44549

Turnaround

☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME: RIVERFRONT LAND, INC. PROJECT LOCATION: HARTFORD/WINDSOR, CT PROJECT NUMBER: 2017 0277-A30 LABORATORY: DAVENIX

REPORT TO: STEFANIE WIERZOMAEK + BRIANNA CHURCH Analysis Request

INVOICE TO: ↓

P.O. No.:

Sampler's Signature: [Signature] Date: 3/5/21

Source Codes:

MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other TRIP BLANK

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
21					1365-210305-21	S	3/5/21	1113
22					-22			1114
23					-23			1116
24					-24			1117
25					-25			1120
26					-26			1121
27					-27			1124
28					-28	↓		1125
29					-29	X		1130
30					-30	X		1132

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
73131								
73132								
73133								
73134								
73135								
73136								
73137								
73138								
73139								
73140								

Transfer Number	Relinquished By	Accepted By	Date	Time
1	<u>[Signature]</u>	<u>[Signature]</u>	3/5/21	13:35
2	<u>[Signature]</u>	<u>[Signature]</u>	3/5/21	13:35
3				
4				

Charge Exceptions: ☒ Tax Exempt ☒ QA/QC ☐ Other _____

Duplicates (Item Nos. _____)

Reporting and Detection Limit Requirements: ☒ MCP Deliverables ☐ MCP CAM Cert.

Additional Comments:

Bobbi Aloisa

From: Stefanie Wierszchalek <SWierszchalek@fando.com>
Sent: Wednesday, March 10, 2021 2:27 PM
To: Bobbi Aloisa
Subject: RE: Phoenix Labs - GCH73111, RIVERFRONT LAND, INC. - COC Acknowledgement

Good afternoon Bobbi,

With regards to the SDG and samples referenced below, can you please add the two highlighted samples for pesticide analysis? Specifically, the samples we need analyzed are:

CH73126	1305210305-16
CH73128	1305210305-18

Please note there will likely be additional parameters/samples added following our review of the initial results from this SDG.

Let me know if you have any questions or need more info.

Thanks!

Stefanie Wierszchalek
Senior Hydrogeologist

Fuss & O'Neill, Inc. | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5503 | swierszchalek@fando.com | cell: 860.670.4385

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From: clientservices@phoenixlabs.com [<mailto:clientservices@phoenixlabs.com>]

Sent: Friday, March 5, 2021 7:07 PM

To: Stefanie Wierszchalek <SWierszchalek@fando.com>

Subject: [External] BULK: Phoenix Labs - GCH73111, RIVERFRONT LAND, INC. - COC Acknowledgement

Importance: Low

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#:20170277.A30

GCH73111 Criteria:
None.

Please email client services only if you require criteria different than what is listed.

Delivery group GCH73111 (RIVERFRONT LAND, INC.) has been logged in for the following samples:

Phoenix Id	Client Id
CH73111	1305210305-01
CH73112	1305210305-02

CH73113	1305210305-03
CH73114	1305210305-04
CH73115	1305210305-05
CH73116	1305210305-06
CH73117	1305210305-07
CH73118	1305210305-08
CH73119	1305210305-09
CH73120	1305210305-10
CH73121	1305210305-11
CH73122	1305210305-12
CH73123	1305210305-13
CH73124	1305210305-14
CH73125	1305210305-15
CH73126	1305210305-16
CH73127	1305210305-17
CH73128	1305210305-18
CH73129	1305210305-19
CH73130	1305210305-20
CH73131	1305210305-21
CH73132	1305210305-22
CH73133	1305210305-23
CH73134	1305210305-24
CH73135	1305210305-25
CH73136	1305210305-26
CH73137	1305210305-27
CH73138	1305210305-28
CH73139	1305210305-29
CH73140	1305210305-30

The samples were received at 4.1C 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: SWierszchalek@fando.com; pbibeu@fando.com; bchurch@fando.com; droseman@fando.com



Wednesday, October 13, 2021

Attn: Mr. Scott Flaherty
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: WINDSOR MEADOWS STATE PARK
SDG ID: GCJ52901
Sample ID#s: CJ52901 - CJ52905

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, appearing to read "Phyllis Shiller".

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
UT Lab Registration #CT00007
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

October 13, 2021

SDG I.D.: GCJ52901

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

October 13, 2021

SDG I.D.: GCJ52901

Project ID: WINDSOR MEADOWS STATE PARK

Client Id	Lab Id	Matrix
1643211008-1	CJ52901	GROUND WATER
1643211008-2	CJ52902	GROUND WATER
1643211008-3	CJ52903	GROUND WATER
1643211008-4	CJ52904	GROUND WATER
1643211008-5	CJ52905	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

October 13, 2021

FOR: Attn: Mr. Scott Flaherty
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

10/08/21
10/08/21

Time

10:10
15:07

Laboratory Data

SDG ID: GCJ52901
Phoenix ID: CJ52901

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211008-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	10/12/21	CPP	SW6010D
Barium	0.055	0.002	mg/L	1	10/12/21	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	10/11/21	AP	SW7470A
Lead	< 0.002	0.002	mg/L	1	10/12/21	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	10/12/21	CPP	SW6010D
Extraction of ETPH	Completed				10/11/21	P/K	SW3510C/SW3520C
Mercury Digestion	Completed				10/10/21	AB/AB	SW7470A
Extraction for Pest (LDL)	Completed				10/12/21	JS/JS	SW3510C
Semi-Volatile Extraction	Completed				10/08/21	P/D	SW3520C
Total Metals Digestion	Completed				10/11/21	TH	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	10/12/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/12/21	JRB	CTETPH 8015D

QA/QC Surrogates

% Terphenyl (surr)	81		%	1	10/12/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
4,4' -DDT	ND	0.010	ug/L	1	10/12/21	AW	SW8081B
a-BHC	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Alachlor	ND	0.077	ug/L	1	10/12/21	AW	SW8081B
Aldrin	ND	0.002	ug/L	1	10/12/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	10/12/21	AW	SW8081B
Chlordane	ND	0.020	ug/L	1	10/12/21	AW	SW8081B
d-BHC	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
Endosulfan I	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endosulfan II	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endrin	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endrin ketone	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Heptachlor	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	10/12/21	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	10/12/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	62		%	1	10/12/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	81		%	1	10/12/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	70		%	1	10/12/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	80		%	1	10/12/21	AW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	10/12/21	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Acetone	ND	25	ug/L	1	10/12/21	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	10/12/21	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	10/12/21	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
Bromoform	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloroform	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Styrene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/12/21	MH	SW8260
Toluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	10/12/21	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	92		%	1	10/12/21	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	10/12/21	MH	70 - 130 %
% Dibromofluoromethane	104		%	1	10/12/21	MH	70 - 130 %
% Toluene-d8	93		%	1	10/12/21	MH	70 - 130 %

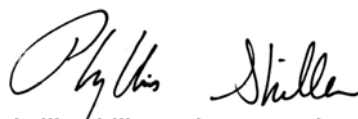
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.50	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Acenaphthene	ND	0.50	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	10/11/21	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	75		%	1	10/11/21	KCA	30 - 130 %
% Nitrobenzene-d5	69		%	1	10/11/21	KCA	30 - 130 %
% Terphenyl-d14	83		%	1	10/11/21	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

October 13, 2021

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

October 13, 2021

FOR: Attn: Mr. Scott Flaherty
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

10/08/21
10/08/21

Time

10:11
15:07

Laboratory Data

SDG ID: GCJ52901
Phoenix ID: CJ52902

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211008-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	10/12/21	CPP	SW6010D
Barium	0.055	0.002	mg/L	1	10/12/21	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	10/11/21	AP	SW7470A
Lead	< 0.002	0.002	mg/L	1	10/12/21	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	10/12/21	CPP	SW6010D
Extraction of ETPH	Completed				10/11/21	P/K	SW3510C/SW3520C
Mercury Digestion	Completed				10/10/21	AB/AB	SW7470A
Extraction for Pest (LDL)	Completed				10/12/21	JS/JS	SW3510C
Semi-Volatile Extraction	Completed				10/08/21	P/D	SW3520C
Total Metals Digestion	Completed				10/11/21	TH	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.074	mg/L	1	10/12/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/12/21	JRB	CTETPH 8015D

QA/QC Surrogates

% Terphenyl (surr)	82		%	1	10/12/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
4,4' -DDT	ND	0.010	ug/L	1	10/12/21	AW	SW8081B
a-BHC	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Alachlor	ND	0.077	ug/L	1	10/12/21	AW	SW8081B
Aldrin	ND	0.002	ug/L	1	10/12/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	10/12/21	AW	SW8081B
Chlordane	ND	0.020	ug/L	1	10/12/21	AW	SW8081B
d-BHC	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
Endosulfan I	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endosulfan II	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endrin	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
Endrin ketone	ND	0.051	ug/L	1	10/12/21	AW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Heptachlor	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	10/12/21	AW	SW8081B
Toxaphene	ND	0.20	ug/L	1	10/12/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	54		%	1	10/12/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	58		%	1	10/12/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	57		%	1	10/12/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	66		%	1	10/12/21	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	10/12/21	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Acetone	ND	25	ug/L	1	10/12/21	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	10/12/21	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	10/12/21	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
Bromoform	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloroform	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Styrene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/12/21	MH	SW8260
Toluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	10/12/21	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	90		%	1	10/12/21	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	10/12/21	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	10/12/21	MH	70 - 130 %
% Toluene-d8	95		%	1	10/12/21	MH	70 - 130 %

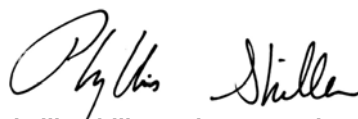
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Acenaphthene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.26	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Anthracene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.21	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.21	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Chrysene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Fluoranthene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Fluorene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Naphthalene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Pyrene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	70		%	1	10/11/21	KCA	30 - 130 %
% Nitrobenzene-d5	62		%	1	10/11/21	KCA	30 - 130 %
% Terphenyl-d14	79		%	1	10/11/21	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

October 13, 2021

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

October 13, 2021

FOR: Attn: Mr. Scott Flaherty
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

10/08/21
10/08/21

Time

11:45
15:07

Laboratory Data

SDG ID: GCJ52901
Phoenix ID: CJ52903

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211008-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	10/12/21	CPP	SW6010D
Barium	0.020	0.002	mg/L	1	10/12/21	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Chromium	0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	10/11/21	AP	SW7470A
Lead	< 0.002	0.002	mg/L	1	10/12/21	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	10/12/21	CPP	SW6010D
Extraction of ETPH	Completed				10/11/21	P/K	SW3510C/SW3520C
Mercury Digestion	Completed				10/10/21	AB/AB	SW7470A
Extraction for Pest (LDL)	Completed				10/12/21	JS/JS	SW3510C
Semi-Volatile Extraction	Completed				10/08/21	P/D	SW3520C
Total Metals Digestion	Completed				10/11/21	TH	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.074	mg/L	1	10/12/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/12/21	JRB	CTETPH 8015D

QA/QC Surrogates

% Terphenyl (surr)	78		%	1	10/12/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
a-BHC	ND	0.025	ug/L	1	10/12/21	AW	SW8081B
Alachlor	ND	0.075	ug/L	1	10/12/21	AW	SW8081B
Aldrin	ND	0.002	ug/L	1	10/12/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	10/12/21	AW	SW8081B
Chlordane	ND	0.30	ug/L	1	10/12/21	AW	SW8081B
d-BHC	ND	0.025	ug/L	1	10/12/21	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
Endosulfan I	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
Endosulfan II	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
Endrin	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
Endrin Aldehyde	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
Endrin ketone	ND	0.050	ug/L	1	10/12/21	AW	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	10/12/21	AW	SW8081B
Heptachlor	ND	0.025	ug/L	1	10/12/21	AW	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	10/12/21	AW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	10/12/21	AW	SW8081B
Toxaphene	ND	1.0	ug/L	1	10/12/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	63		%	1	10/12/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	35		%	1	10/12/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	78		%	1	10/12/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	36		%	1	10/12/21	AW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	10/12/21	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Acetone	ND	25	ug/L	1	10/12/21	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	10/12/21	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	10/12/21	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
Bromoform	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloroform	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Styrene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/12/21	MH	SW8260
Toluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	10/12/21	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	90		%	1	10/12/21	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	10/12/21	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	10/12/21	MH	70 - 130 %
% Toluene-d8	94		%	1	10/12/21	MH	70 - 130 %

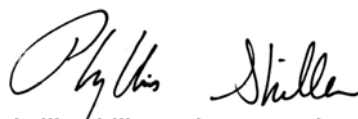
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Acenaphthene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Anthracene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Chrysene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Fluoranthene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Fluorene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Naphthalene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Pyrene	ND	0.52	ug/L	1	10/11/21	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	73		%	1	10/11/21	KCA	30 - 130 %
% Nitrobenzene-d5	64		%	1	10/11/21	KCA	30 - 130 %
% Terphenyl-d14	79		%	1	10/11/21	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

October 13, 2021

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

October 13, 2021

FOR: Attn: Mr. Scott Flaherty
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: GROUND WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

10/08/21

Time

13:52

10/08/21

15:07

Laboratory Data

SDG ID: GCJ52901
Phoenix ID: CJ52904

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211008-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	10/12/21	CPP	SW6010D
Barium	0.080	0.002	mg/L	1	10/12/21	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	10/12/21	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	10/11/21	AP	SW7470A
Lead	< 0.002	0.002	mg/L	1	10/12/21	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	10/12/21	CPP	SW6010D
Extraction of ETPH	Completed				10/11/21	P/K	SW3510C/SW3520C
Mercury Digestion	Completed				10/10/21	AB/AB	SW7470A
Extraction for Pest (LDL)	Completed				10/12/21	JS/JS	SW3510C
Semi-Volatile Extraction	Completed				10/08/21	P/D	SW3520C
Total Metals Digestion	Completed				10/11/21	TH	

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	0.076	mg/L	1	10/12/21	JRB	CTETPH 8015D
Identification	ND		mg/L	1	10/12/21	JRB	CTETPH 8015D

QA/QC Surrogates

% Terphenyl (surr)	83		%	1	10/12/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
4,4' -DDE	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
4,4' -DDT	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
a-BHC	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Alachlor	ND	0.077	ug/L	1	10/12/21	AW	SW8081B
Aldrin	ND	0.002	ug/L	1	10/12/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.005	ug/L	1	10/12/21	AW	SW8081B
Chlordane	ND	0.021	ug/L	1	10/12/21	AW	SW8081B
d-BHC	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/12/21	AW	SW8081B
Endosulfan I	ND	0.052	ug/L	1	10/12/21	AW	SW8081B
Endosulfan II	ND	0.052	ug/L	1	10/12/21	AW	SW8081B
Endosulfan Sulfate	ND	0.052	ug/L	1	10/12/21	AW	SW8081B
Endrin	ND	0.052	ug/L	1	10/12/21	AW	SW8081B
Endrin Aldehyde	ND	0.052	ug/L	1	10/12/21	AW	SW8081B
Endrin ketone	ND	0.052	ug/L	1	10/12/21	AW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Heptachlor	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	10/12/21	AW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	10/12/21	AW	SW8081B
Toxaphene	ND	0.21	ug/L	1	10/12/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
%DCBP (Surrogate Rec)	62		%	1	10/12/21	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	91		%	1	10/12/21	AW	30 - 150 %
%TCMX (Surrogate Rec)	71		%	1	10/12/21	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	90		%	1	10/12/21	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	10/12/21	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Acetone	ND	25	ug/L	1	10/12/21	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	10/12/21	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.70	ug/L	1	10/12/21	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
Bromoform	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloroform	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	10/12/21	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Styrene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/12/21	MH	SW8260
Toluene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	10/12/21	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/12/21	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/12/21	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/12/21	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	10/12/21	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	91		%	1	10/12/21	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	10/12/21	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	10/12/21	MH	70 - 130 %
% Toluene-d8	94		%	1	10/12/21	MH	70 - 130 %

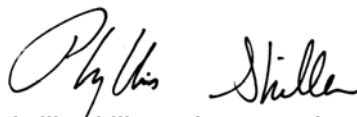
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Semivolatiles by SIM, PAH</u>							
2-Methylnaphthalene	ND	0.47	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Acenaphthene	ND	0.47	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Acenaphthylene	ND	0.28	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Anthracene	ND	0.47	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Chrysene	ND	0.47	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Fluoranthene	ND	0.47	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Fluorene	ND	0.47	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Naphthalene	ND	0.47	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	10/11/21	KCA	SW8270D (SIM)
Pyrene	ND	0.47	ug/L	1	10/11/21	KCA	SW8270D (SIM)
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	81		%	1	10/11/21	KCA	30 - 130 %
% Nitrobenzene-d5	72		%	1	10/11/21	KCA	30 - 130 %
% Terphenyl-d14	84		%	1	10/11/21	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

October 13, 2021

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

October 13, 2021

FOR: Attn: Mr. Scott Flaherty
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: WATER
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

10/08/21
10/08/21

Time

14:00
15:07

Laboratory Data

SDG ID: GCJ52901
Phoenix ID: CJ52905

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211008-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/11/21	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/11/21	MH	SW8260
1,2-Dibromoethane	ND	0.50	ug/L	1	10/11/21	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	10/11/21	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	10/11/21	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/11/21	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	10/11/21	MH	SW8260
Acrylonitrile	ND	0.50	ug/L	1	10/11/21	MH	SW8260
Benzene	ND	0.70	ug/L	1	10/11/21	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	10/11/21	MH	SW8260
Bromoform	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	10/11/21	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Chloroform	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/11/21	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	10/11/21	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	10/11/21	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	10/11/21	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Styrene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/11/21	MH	SW8260
Toluene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	10/11/21	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/11/21	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/11/21	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/11/21	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	10/11/21	MH	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	91		%	1	10/11/21	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	10/11/21	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	10/11/21	MH	70 - 130 %

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211008-5

Phoenix I.D.: CJ52905

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95		%	1	10/11/21	MH	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

October 13, 2021

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

QA/QC Report

October 13, 2021

QA/QC Data

SDG I.D.: GCJ52901

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 595657 (mg/L), QC Sample No: CJ52901 (CJ52901, CJ52902, CJ52903, CJ52904)

Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	99.9			95.3			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 595783 (mg/L), QC Sample No: CJ52718 (CJ52901, CJ52902, CJ52903, CJ52904)

ICP Metals - Aqueous

Arsenic	BRL	0.004	<0.004	<0.004	NC	99.6	99.6	0.0	95.4			80 - 120	20
Barium	BRL	0.002	0.003	0.003	NC	100	101	1.0	99.0			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	104	105	1.0	102			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	103	103	0.0	101			80 - 120	20
Lead	BRL	0.002	<0.002	<0.002	NC	101	101	0.0	98.3			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	91.9	91.5	0.4	84.1			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	94.0	94.4	0.4	92.6			80 - 120	20

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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QA/QC Report

October 13, 2021

QA/QC Data

SDG I.D.: GCJ52901

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

QA/QC Batch 595795 (mg/L), QC Sample No: CJ52901 (CJ52901, CJ52902, CJ52903, CJ52904)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum H.C. (C9-C36)	ND	0.10	97	117	18.7				60 - 120	30
% Terphenyl (surr)	91	%	85	91	6.8				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 595857 (ug/L), QC Sample No: CJ52901 (CJ52901, CJ52902, CJ52903, CJ52904)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	123	106	14.8				40 - 140	20
4,4' -DDE	ND	0.003	112	98	13.3				40 - 140	20
4,4' -DDT	ND	0.003	103	91	12.4				40 - 140	20
a-BHC	ND	0.002	110	93	16.7				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	101	87	14.9				40 - 140	20
b-BHC	ND	0.002	129	111	15.0				40 - 140	20
Chlordane	ND	0.050	101	90	11.5				40 - 140	20
d-BHC	ND	0.005	46	44	4.4				40 - 140	20
Dieldrin	ND	0.002	115	100	14.0				40 - 140	20
Endosulfan I	ND	0.005	94	72	26.5				40 - 140	20
Endosulfan II	ND	0.005	135	125	7.7				40 - 140	20
Endosulfan sulfate	ND	0.005	98	86	13.0				40 - 140	20
Endrin	ND	0.005	135	120	11.8				40 - 140	20
Endrin aldehyde	ND	0.005	100	89	11.6				40 - 140	20
Endrin ketone	ND	0.005	107	91	16.2				40 - 140	20
g-BHC	ND	0.002	118	102	14.5				40 - 140	20
Heptachlor	ND	0.005	109	93	15.8				40 - 140	20
Heptachlor epoxide	ND	0.005	114	96	17.1				40 - 140	20
Methoxychlor	ND	0.005	127	107	17.1				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	89	%	91	81	11.6				30 - 150	20
% DCBP (Confirmation)	74	%	80	72	10.5				30 - 150	20
% TCMX	80	%	91	72	23.3				30 - 150	20
% TCMX (Confirmation)	81	%	85	72	16.6				30 - 150	20

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 595569 (ug/L), QC Sample No: CJ52603 (CJ52901, CJ52902, CJ52903, CJ52904)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	52	61	15.9				30 - 130	20
Acenaphthene	ND	0.50	63	66	4.7				30 - 130	20
Acenaphthylene	ND	0.10	56	48	15.4				30 - 130	20

QA/QC Data

SDG I.D.: GCJ52901

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Anthracene	ND	0.10	76	76	0.0				30 - 130	20
Benz(a)anthracene	ND	0.02	83	82	1.2				30 - 130	20
Benzo(a)pyrene	ND	0.02	76	67	12.6				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	82	83	1.2				30 - 130	20
Benzo(ghi)perylene	ND	0.02	82	78	5.0				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	80	79	1.3				30 - 130	20
Chrysene	ND	0.02	79	78	1.3				30 - 130	20
Dibenz(a,h)anthracene	ND	0.02	97	94	3.1				30 - 130	20
Fluoranthene	ND	0.50	76	76	0.0				30 - 130	20
Fluorene	ND	0.10	66	68	3.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	103	99	4.0				30 - 130	20
Naphthalene	ND	0.50	43	50	15.1				30 - 130	20
Phenanthrene	ND	0.06	70	70	0.0				30 - 130	20
Pyrene	ND	0.07	79	77	2.6				30 - 130	20
% 2-Fluorobiphenyl	69	%	62	64	3.2				30 - 130	20
% Nitrobenzene-d5	57	%	49	46	6.3				30 - 130	20
% Terphenyl-d14	86	%	91	86	5.6				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 595907 (ug/L), QC Sample No: CJ52905 (CJ52901, CJ52902, CJ52903, CJ52904, CJ52905)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	83	93	11.4				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	80	90	11.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	82	95	14.7				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	80	95	17.1				70 - 130	30
1,1-Dichloroethane	ND	1.0	83	92	10.3				70 - 130	30
1,1-Dichloroethene	ND	1.0	80	88	9.5				70 - 130	30
1,1-Dichloropropene	ND	1.0	79	91	14.1				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	75	93	21.4				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	79	91	14.1				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	77	90	15.6				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	80	92	14.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	82	101	20.8				70 - 130	30
1,2-Dibromoethane	ND	1.0	87	95	8.8				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	80	92	14.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	81	95	15.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	81	95	15.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	81	93	13.8				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	81	93	13.8				70 - 130	30
1,3-Dichloropropane	ND	1.0	84	96	13.3				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	80	93	15.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	82	89	8.2				70 - 130	30
2-Chlorotoluene	ND	1.0	82	95	14.7				70 - 130	30
2-Hexanone	ND	5.0	82	98	17.8				70 - 130	30
2-Isopropyltoluene	ND	1.0	82	94	13.6				70 - 130	30
4-Chlorotoluene	ND	1.0	83	95	13.5				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	83	96	14.5				70 - 130	30
Acetone	ND	5.0	87	90	3.4				70 - 130	30
Acrylonitrile	ND	5.0	77	87	12.2				70 - 130	30
Benzene	ND	0.70	82	96	15.7				70 - 130	30
Bromobenzene	ND	1.0	86	98	13.0				70 - 130	30

QA/QC Data

SDG I.D.: GCJ52901

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromochloromethane	ND	1.0	81	93	13.8				70 - 130	30
Bromodichloromethane	ND	0.50	81	97	18.0				70 - 130	30
Bromoform	ND	1.0	80	94	16.1				70 - 130	30
Bromomethane	ND	1.0	92	105	13.2				70 - 130	30
Carbon Disulfide	ND	1.0	77	83	7.5				70 - 130	30
Carbon tetrachloride	ND	1.0	74	103	32.8				70 - 130	30
Chlorobenzene	ND	1.0	83	93	11.4				70 - 130	30
Chloroethane	ND	1.0	83	90	8.1				70 - 130	30
Chloroform	ND	1.0	81	91	11.6				70 - 130	30
Chloromethane	ND	1.0	76	85	11.2				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	84	95	12.3				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	81	95	15.9				70 - 130	30
Dibromochloromethane	ND	0.50	82	96	15.7				70 - 130	30
Dibromomethane	ND	1.0	81	95	15.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	71	76	6.8				70 - 130	30
Ethylbenzene	ND	1.0	83	94	12.4				70 - 130	30
Hexachlorobutadiene	ND	0.40	91	96	5.3				70 - 130	30
Isopropylbenzene	ND	1.0	83	94	12.4				70 - 130	30
m&p-Xylene	ND	1.0	80	91	12.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	73	92	23.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	82	93	12.6				70 - 130	30
Methylene chloride	ND	1.0	82	91	10.4				70 - 130	30
Naphthalene	ND	1.0	74	92	21.7				70 - 130	30
n-Butylbenzene	ND	1.0	84	96	13.3				70 - 130	30
n-Propylbenzene	ND	1.0	81	94	14.9				70 - 130	30
o-Xylene	ND	1.0	82	94	13.6				70 - 130	30
p-Isopropyltoluene	ND	1.0	82	94	13.6				70 - 130	30
sec-Butylbenzene	ND	1.0	81	92	12.7				70 - 130	30
Styrene	ND	1.0	84	95	12.3				70 - 130	30
tert-Butylbenzene	ND	1.0	82	95	14.7				70 - 130	30
Tetrachloroethene	ND	1.0	79	92	15.2				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	73	85	15.2				70 - 130	30
Toluene	ND	1.0	82	96	15.7				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	81	90	10.5				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	81	93	13.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	68	79	15.0				70 - 130	30
Trichloroethene	ND	1.0	79	93	16.3				70 - 130	30
Trichlorofluoromethane	ND	1.0	80	88	9.5				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	71	76	6.8				70 - 130	30
Vinyl chloride	ND	1.0	82	91	10.4				70 - 130	30
% 1,2-dichlorobenzene-d4	91	%	102	102	0.0				70 - 130	30
% Bromofluorobenzene	94	%	100	102	2.0				70 - 130	30
% Dibromofluoromethane	103	%	97	95	2.1				70 - 130	30
% Toluene-d8	93	%	99	101	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.

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.: GCJ52901

Parameter	Blk		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
	Blank	RL								

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
October 13, 2021

Wednesday, October 13, 2021

Criteria: CT: GWP, RV, SWP

State: CT

Sample Criteria Exceedances Report

GCJ52901 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CJ52901	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CJ52901	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CJ52901	\$8260GWR	1,2-Dibromoethane	CT / RSR GWVC RES (ug/l) / Volatiles	ND	0.50	0.3	0.3	ug/L
CJ52902	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CJ52902	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CJ52902	\$8260GWR	1,2-Dibromoethane	CT / RSR GWVC RES (ug/l) / Volatiles	ND	0.50	0.3	0.3	ug/L
CJ52903	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CJ52903	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CJ52903	\$8260GWR	1,2-Dibromoethane	CT / RSR GWVC RES (ug/l) / Volatiles	ND	0.50	0.3	0.3	ug/L
CJ52904	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CJ52904	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CJ52904	\$8260GWR	1,2-Dibromoethane	CT / RSR GWVC RES (ug/l) / Volatiles	ND	0.50	0.3	0.3	ug/L
CJ52905	\$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CJ52905	\$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CJ52905	\$8260GWR	1,2-Dibromoethane	CT / RSR GWVC RES (ug/l) / Volatiles	ND	0.50	0.3	0.3	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: Fuss & O'Neill, Inc.

Project Location: WINDSOR MEADOWS STATE PARK

Project Number:

Laboratory Sample ID(s): CJ52901-CJ52905

Sampling Date(s): 10/8/2021

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 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?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ 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)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☐ Yes ☒ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: PEST Narration, VOA Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☐ Yes ☒ 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?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☒ Yes ☐ 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, October 13, 2021

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

October 13, 2021

SDG I.D.: GCJ52901

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).

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL1 10/12/21-1

Jeff Bucko, Chemist 10/12/21

CJ52901 (1X), CJ52902 (1X), CJ52903 (1X), CJ52904 (1X)

The initial calibration (ETPHO11I) 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 (O12A003_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: CJ52901, CJ52902, CJ52903, CJ52904

Preceding CC O12A016 - None.

Succeeding CC O12A028 - ETPH (C9-C36) 32%H (30%)

QC (Batch Specific):

Batch 595795 (CJ52901)

CJ52901, CJ52902, CJ52903, CJ52904

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 10/11/21 17:54

Alex Purdue, Chemist 10/11/21

CJ52901, CJ52902, CJ52903, CJ52904

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):



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Certification Report

October 13, 2021

SDG I.D.: GCJ52901

Mercury Narration

Batch 595657 (CJ52901)

CJ52901, CJ52902, CJ52903, CJ52904

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:

BLUE 10/12/21 08:49

Cindy Pearce, Chemist 10/12/21

CJ52901, CJ52902, CJ52903, CJ52904

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. 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 595783 (CJ52718)

CJ52901, CJ52902, CJ52903, CJ52904

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%.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 595857 (Samples: CJ52901, CJ52902, CJ52903, CJ52904): -----

The LCS/LCSD RPD exceeds the method criteria for one analyte and a surrogate. This analyte was not reported in the sample(s). No significant variability is suspected. (Endosulfan I, % TCMX)

Instrument:

AU-ECD35 10/12/21-1

Adam Werner, Chemist 10/12/21

CJ52901 (1X), CJ52902 (1X), CJ52903 (1X), CJ52904 (1X)

The initial calibration (PS0924AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PS0924BI) 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.



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RCP Certification Report

October 13, 2021

SDG I.D.: GCJ52901

PEST Narration

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.

QC (Batch Specific):

Batch 595857 (CJ52901)

CJ52901, CJ52902, CJ52903, CJ52904

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: % TCMX(23.3%), Endosulfan I(26.5%)

A LCS and LCSD duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM25 10/10/21-1

Matt Richard, Chemist 10/10/21

CJ52901 (1X), CJ52902 (1X), CJ52903 (1X), CJ52904 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM25/25_BNSIM18_0913):

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 (CHEM25/1010_03-25_BNSIM18_0913):

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 595569 (CJ52603)

CJ52901, CJ52902, CJ52903, CJ52904

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



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

October 13, 2021

SDG I.D.: GCJ52901

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 595907 (Samples: CJ52901, CJ52902, CJ52903, CJ52904, CJ52905): -----

The LCS recovery is below the lower range. The LCSD is acceptable. No significant bias is suspected. (trans-1,4-dichloro-2-butene)

The LCS/LCSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample(s). No significant variability is suspected. (Carbon tetrachloride)

Instrument:

CHEM17 10/11/21-3

Michael Hahn, Chemist 10/11/21

CJ52901 (1X), CJ52902 (1X), CJ52903 (1X), CJ52904 (1X), CJ52905 (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-101021):

96% of target compounds met criteria.

The following compounds had %RSDs >20%: 1,2,3-Trichloropropane 21% (20%), Bromomethane 22% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.043 (0.05), 2-Hexanone 0.056 (0.1), 4-Methyl-2-pentanone 0.078 (0.1), Acetone 0.037 (0.1), Acrylonitrile 0.046 (0.05), Methyl ethyl ketone 0.046 (0.1), Tetrahydrofuran (THF) 0.030 (0.05)

The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.043 (0.05), Acetone 0.037 (0.05), Acrylonitrile 0.046 (0.05), Methyl ethyl ketone 0.046 (0.05), Tetrahydrofuran (THF) 0.030 (0.05)

Continuing Calibration Verification (CHEM17/1011_30-VT-101021):

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: Dichlorodifluoromethane 40%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 0.041 (0.05), Acetone 0.036 (0.05), Acrylonitrile 0.041 (0.05), Methyl ethyl ketone 0.043 (0.05), Tetrahydrofuran (THF) 0.027 (0.05)

QC (Batch Specific):

Batch 595907 (CJ52905)

CHEM17 10/11/2021-3

CJ52901(1X), CJ52902(1X), CJ52903(1X), CJ52904(1X), CJ52905(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(68%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: Carbon tetrachloride(32.8%)

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 16.2C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



FUSS & O'NEILL

(860) 646-2463 • www.FandO.com

- ☒ 140 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ 540 North Commercial Street, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carola, Suite 600, Laguna Hills, CA 92653

WCIP
16.2

☐ Other

CHAIN-OF-CUSTODY RECORD

45597

Turnaround

- ☐ 24 Hour* ☐ 72 Hour* ☐ Other _____ (days)
☐ 48 Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME

Windsor Meadows State Park Windsor, CT

PROJECT NUMBER

20170277 A30

LABORATORY

Phoebe

REPORT TO: Scott Flaherty

INVOICE TO:

P.O. NO.:

Sampler's Signature: *Chris Smith*

Date: 10/8/12

Source Codes:

MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment

SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other *Chris Smith* Trip blank

Analysis Request

Containers

INVOICE TO: ↓										Request									
P.O. No.:																			
Sampler's Signature: Chao Ren										Date: 10/8/21									
Source Codes: MW=Monitoring Well SW=Surface Water X=Other										PW=Portable Water ST=Stormwater T=Treatment Facility W=Waste S=Soil C=Concrete B=Sediment									
Chao Ren Trip blank																			
Transfer Check										Sample Number									
Item No.										Source Code									
1 2 3 4										Date Sampled									
										Time Sampled									
										1643211008-1									
										MW									
										10/8/21									
										1010									
										1011									
										1145									
										1352									
										1400									
										X									

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions:	CT Tax Exempt	QA/QC	Other
1	<i>Chris Smith</i>	<i>[Signature]</i>	10/8	1507	☐ Duplicates	☐ Blanks (Item Nos. _____)	☐ Other	
2					Reporting and Detection Limit Requirements: <i>GWPC, SWPC, Res vL</i>			
3					Additional Comments:			
4								



Tuesday, November 16, 2021

Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: WINDSOR MEADOWS STATE PARK
SDG ID: GCJ59064
Sample ID#s: CJ59064 - CJ59068, CJ59070 - CJ59074, CJ59076, CJ59078, CJ59081 -
CJ59082, CJ59084 - CJ59085, CJ59087 - CJ59088, CJ59090 - CJ59093,
CJ59096 - CJ59097

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, appearing to read "Phyllis Shiller".

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
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

November 16, 2021

SDG I.D.: GCJ59064

Project ID: WINDSOR MEADOWS STATE PARK

Client Id	Lab Id	Matrix
1643211015-01	CJ59064	SOIL
1643211015-02	CJ59065	SOIL
1643211015-03	CJ59066	SOIL
1643211015-04	CJ59067	SOIL
1643211015-05	CJ59068	SOIL
1643211015-07	CJ59070	SOIL
1643211015-08	CJ59071	SOIL
1643211015-09	CJ59072	SOIL
1643211015-10	CJ59073	SOIL
1643211015-11	CJ59074	SOIL
1643211015-13	CJ59076	SOIL
1643211015-15	CJ59078	SOIL
1643211015-35	CJ59081	SOIL
1643211015-18	CJ59082	SOIL
1643211015-20	CJ59084	SOIL
1643211015-21	CJ59085	SOIL
1643211015-23	CJ59087	SOIL
1643211015-24	CJ59088	SOIL
1643211015-26	CJ59090	SOIL
1643211015-27	CJ59091	SOIL
1643211015-28	CJ59092	SOIL
1643211015-29	CJ59093	SOIL
1643211015-32	CJ59096	SOIL
1643211015-33	CJ59097	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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 8:58
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59064

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	3.45	0.77	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	64.7	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.78	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	30.8	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	0.23	0.03	mg/Kg	2	10/18/21	AP	SW7471B
Lead	39.5	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	81		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	300	mg/Kg	5	10/18/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	10/18/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	68		%	5	10/18/21	JRB	50 - 150 %
% Terphenyl (surr)	78		%	5	10/18/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	37	8.1	ug/Kg	2	10/20/21	AW	SW8081B
4,4' -DDE	370	41	ug/Kg	10	10/20/21	AW	SW8081B
4,4' -DDT	610	160	ug/Kg	200	10/19/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Chlordane	80	41	ug/Kg	2	10/20/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Dieldrin	15	4.1	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endrin	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	10/20/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/20/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	53		%	2	10/20/21	AW	30 - 150 %
% DCBP (Confirmation)	86		%	2	10/20/21	AW	30 - 150 %
% TCMX	65		%	2	10/20/21	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	10/20/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	400	280	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	880	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	1000	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	910	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	700	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	890	280	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	1000	280	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	1300	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	760	280	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	480	280	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	1300	280	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	74		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	87		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	87		%	1	10/16/21	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

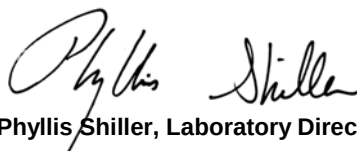
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 9:04
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59065

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	2.78	0.84	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	58.1	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.48	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	31.9	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	0.03	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	33.7	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	85		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	10/18/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	10/18/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	91		%	5	10/18/21	JRB	50 - 150 %
% Terphenyl (surr)	87		%	5	10/18/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	18	7.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	43	7.6	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	120	38	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	59		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	81		%	2	10/19/21	AW	30 - 150 %
% TCMX	61		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	10/19/21	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	700	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	1100	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	990	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	940	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	1000	270	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	780	270	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	930	270	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	980	270	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	460	270	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	930	270	ug/Kg	1	10/16/21	WB	SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	75		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	86		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	80		%	1	10/16/21	WB	30 - 130 %

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:

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 9:30
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59066

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	7.06	0.72	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	94.8	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	1.31	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	211	3.6	mg/Kg	10	10/20/21	TH	SW6010D
Mercury	0.12	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	78.1	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	84		%		10/15/21	Q	SW846-%Solid
Soil Extraction for PCB	Completed				10/18/21	O/E	SW3545A
Soil Extraction for Pesticide	Completed				10/18/21	O/E	SW3545A
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	10/18/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	10/18/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	82	%	5	10/18/21	JRB	50 - 150 %
% Terphenyl (surr)	72	%	5	10/18/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	390	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	10/19/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	390	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	10/19/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	90		%	10	10/19/21	SC	30 - 150 %
% DCBP (Confirmation)	86		%	10	10/19/21	SC	30 - 150 %
% TCMX	76		%	10	10/19/21	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	10/19/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	34	7.8	ug/Kg	2	10/20/21	AW	SW8081B
4,4' -DDE	95	39	ug/Kg	10	10/20/21	AW	SW8081B
4,4' -DDT	240	39	ug/Kg	10	10/20/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Chlordane	96	39	ug/Kg	2	10/20/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor epoxide	12	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	10/20/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/20/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	54		%	2	10/20/21	AW	30 - 150 %
% DCBP (Confirmation)	79		%	2	10/20/21	AW	30 - 150 %
% TCMX	70		%	2	10/20/21	AW	30 - 150 %
% TCMX (Confirmation)	71		%	2	10/20/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	4300	270	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	2600	270	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	15000	2700	ug/Kg	10	10/18/21	WB	SW8270D
Benzo(a)pyrene	15000	2700	ug/Kg	10	10/18/21	WB	SW8270D
Benzo(b)fluoranthene	12000	2700	ug/Kg	10	10/18/21	WB	SW8270D
Benzo(ghi)perylene	9800	2700	ug/Kg	10	10/18/21	WB	SW8270D
Benzo(k)fluoranthene	6600	270	ug/Kg	1	10/16/21	WB	SW8270D

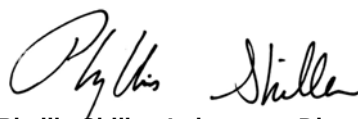
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	15000	2700	ug/Kg	10	10/18/21	WB	SW8270D
Dibenz(a,h)anthracene	2800	270	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	25000	2700	ug/Kg	10	10/18/21	WB	SW8270D
Fluorene	780	270	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	11000	2700	ug/Kg	10	10/18/21	WB	SW8270D
Naphthalene	570	270	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	5500	270	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	26000	2700	ug/Kg	10	10/18/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	76		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	83		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	83		%	1	10/16/21	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	10/18/21	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	10/18/21	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	10/18/21	WB	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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 9:31
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59067

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		10/26/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/27/21	O/Y	SW3545A
Soil Extraction for SVOA PAH	Completed				10/26/21	R/Y	SW3545A

Pesticides

4,4' -DDD	5.6	1.5	ug/Kg	2	10/28/21	AW	SW8081B
4,4' -DDE	41	7.4	ug/Kg	2	10/28/21	AW	SW8081B
4,4' -DDT	130	37	ug/Kg	10	10/29/21	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	10/28/21	AW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	10/28/21	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	10/28/21	AW	SW8081B
Chlordane	64	37	ug/Kg	2	10/28/21	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	10/28/21	AW	SW8081B
Dieldrin	9.7	3.7	ug/Kg	2	10/28/21	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/28/21	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	10/28/21	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	10/28/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/28/21	AW	SW8081B

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP	75		%	2	10/28/21	AW	30 - 150 %
% DCBP (Confirmation)	75		%	2	10/28/21	AW	30 - 150 %
% TCMX	65		%	2	10/28/21	AW	30 - 150 %
% TCMX (Confirmation)	69		%	2	10/28/21	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Benzo(ghi)perylene	290	260	ug/Kg	1	10/27/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	300	260	ug/Kg	1	10/27/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/27/21	WB	SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	70		%	1	10/27/21	WB	30 - 130 %
% Nitrobenzene-d5	74		%	1	10/27/21	WB	30 - 130 %
% Terphenyl-d14	81		%	1	10/27/21	WB	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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 9:51
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59068

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	3.52	0.85	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	63.4	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.54	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	27.1	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	17.0	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	81		%		10/15/21	Q	SW846-%Solid
Soil Extraction for PCB	Completed				10/18/21	O/E	SW3545A
Soil Extraction for Pesticide	Completed				10/18/21	O/E	SW3545A
Field Extraction	Completed				10/15/21		SW5035A
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	80		%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	68		%	1	10/16/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	10/19/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1242	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	56		%	10	10/19/21	SC	30 - 150 %
% DCBP (Confirmation)	61		%	10	10/19/21	SC	30 - 150 %
% TCMX	45		%	10	10/19/21	SC	30 - 150 %
% TCMX (Confirmation)	48		%	10	10/19/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
4,4' -DDE	1.9	1.6	ug/Kg	2	10/20/21	AW	SW8081B
4,4' -DDT	2.0	1.6	ug/Kg	2	10/20/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Alachlor	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	10/20/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endrin	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	10/20/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/20/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/20/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	56		%	2	10/20/21	AW	30 - 150 %
% DCBP (Confirmation)	48		%	2	10/20/21	AW	30 - 150 %
% TCMX	42		%	2	10/20/21	AW	30 - 150 %
% TCMX (Confirmation)	45		%	2	10/20/21	AW	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	10/19/21	JLI	SW8260
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,1-Dichloroethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,1-Dichloroethene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,1-Dichloropropene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dibromoethane	ND	0.47	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dichloroethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dichloropropane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,3-Dichloropropane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
2,2-Dichloropropane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
2-Chlorotoluene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	10/19/21	JLI	SW8260
2-Isopropyltoluene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
4-Chlorotoluene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	10/19/21	JLI	SW8260
Acetone	ND	230	ug/Kg	1	10/19/21	JLI	SW8260
Acrylonitrile	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Benzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Bromobenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Bromochloromethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Bromodichloromethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Bromoform	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Bromomethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Carbon Disulfide	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Carbon tetrachloride	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Chlorobenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Chloroethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Chloroform	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Chloromethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	10/19/21	JLI	SW8260
Dibromomethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Ethylbenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Hexachlorobutadiene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Isopropylbenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
m&p-Xylene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	10/19/21	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.4	ug/Kg	1	10/19/21	JLI	SW8260
Methylene chloride	ND	9.4	ug/Kg	1	10/19/21	JLI	SW8260
Naphthalene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
n-Butylbenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
n-Propylbenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
o-Xylene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
p-Isopropyltoluene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Styrene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
tert-Butylbenzene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Tetrachloroethene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.4	ug/Kg	1	10/19/21	JLI	SW8260
Toluene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Total Xylenes	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.4	ug/Kg	1	10/19/21	JLI	SW8260
Trichloroethene	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Trichlorofluoromethane	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
Trichlorotrifluoroethane	ND	9.4	ug/Kg	1	10/19/21	JLI	SW8260
Vinyl chloride	ND	4.7	ug/Kg	1	10/19/21	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	10/19/21	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	10/19/21	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	10/19/21	JLI	70 - 130 %
% Toluene-d8	95		%	1	10/19/21	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	370	290	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	350	290	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	66		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	72		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	76		%	1	10/16/21	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

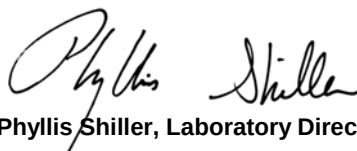
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

<u>Date</u>	<u>Time</u>
10/15/21	10:06
10/15/21	15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59070

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	6.62	0.81	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	97.1	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	1.16	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	31.7	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	0.17	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	80.9	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	81		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	100	62	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	137		%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	95		%	1	10/16/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	120	41	ug/Kg	10	10/20/21	AW	SW8081B
4,4' -DDT	180	41	ug/Kg	10	10/20/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	8.1	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	310	41	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	9.5	4.1	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	47	8.1	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	47	8.1	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	81		%	2	10/19/21	AW	30 - 150 %
% TCMX	59		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	67		%	2	10/19/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	290	280	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	580	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	700	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	570	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	600	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	620	280	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	630	280	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	910	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	640	280	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	410	280	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	910	280	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	67		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	82		%	1	10/16/21	WB	30 - 130 %

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.

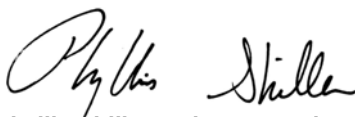
Comments:

TPH Comment:

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

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 10:07
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59071

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		10/26/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/27/21	O/Y	SW3545A

Pesticides

4,4' -DDD	57	40	ug/Kg	10	10/29/21	AW	SW8081B
4,4' -DDE	170	40	ug/Kg	10	10/29/21	AW	SW8081B
4,4' -DDT	270	40	ug/Kg	10	10/29/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/29/21	AW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	10/29/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/29/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/29/21	AW	SW8081B
Chlordane	750	200	ug/Kg	10	10/29/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/29/21	AW	SW8081B
Dieldrin	20	4.0	ug/Kg	2	10/29/21	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	10/29/21	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	10/29/21	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	10/29/21	AW	SW8081B
Endrin	120	40	ug/Kg	10	10/29/21	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	10/29/21	AW	SW8081B
Endrin ketone	36	8.0	ug/Kg	2	10/29/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/29/21	AW	SW8081B
Heptachlor	15	8.0	ug/Kg	2	10/29/21	AW	SW8081B
Heptachlor epoxide	85	40	ug/Kg	10	10/29/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/29/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/29/21	AW	SW8081B

QA/QC Surrogates

% DCBP	75		%	2	10/29/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	73		%	2	10/29/21	AW	30 - 150 %
% TCMX	59		%	2	10/29/21	AW	30 - 150 %
% TCMX (Confirmation)	64		%	2	10/29/21	AW	30 - 150 %

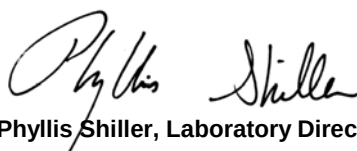
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 10:23
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59072

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	5.64	0.71	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	84.1	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	1.15	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	33.4	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	0.07	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	31.0	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	85		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	94		%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	82		%	1	10/16/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	22	7.8	ug/Kg	2	10/20/21	AW	SW8081B
4,4' -DDE	260	39	ug/Kg	10	10/20/21	AW	SW8081B
4,4' -DDT	280	39	ug/Kg	10	10/20/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Chlordane	490	190	ug/Kg	10	10/20/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Dieldrin	9.3	3.9	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endrin	ND	20	ug/Kg	2	10/20/21	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Endrin ketone	11	7.8	ug/Kg	2	10/20/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor epoxide	78	7.8	ug/Kg	2	10/20/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	10/20/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/20/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	58		%	2	10/20/21	AW	30 - 150 %
% DCBP (Confirmation)	94		%	2	10/20/21	AW	30 - 150 %
% TCMX	68		%	2	10/20/21	AW	30 - 150 %
% TCMX (Confirmation)	77		%	2	10/20/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	290	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	310	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	290	270	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	290	270	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	310	270	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	83		%	1	10/16/21	WB	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

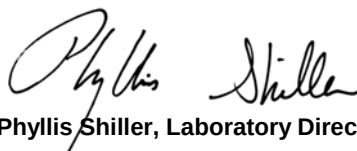
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 10:24
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59073

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		10/26/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/27/21	O/Y	SW3545A

Pesticides

4,4' -DDD	ND	1.6	ug/Kg	2	10/28/21	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	10/28/21	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	10/28/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/28/21	AW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/28/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/28/21	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	10/28/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/28/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	10/28/21	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/28/21	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	10/28/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	10/28/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/28/21	AW	SW8081B

QA/QC Surrogates

% DCBP	70		%	2	10/28/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	70		%	2	10/28/21	AW	30 - 150 %
% TCMX	61		%	2	10/28/21	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	10/28/21	AW	30 - 150 %

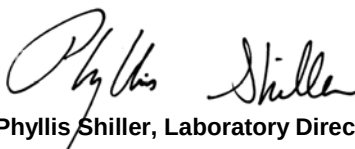
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 10:35
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59074

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	4.09	0.80	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	68.5	0.40	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.93	0.40	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	30.4	0.40	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	30.8	0.40	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	84		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	78		%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	67		%	1	10/16/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	1.5	ug/Kg	2	10/20/21	AW	SW8081B
4,4' -DDE	190	39	ug/Kg	10	10/20/21	AW	SW8081B
4,4' -DDT	200	39	ug/Kg	10	10/20/21	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	10/20/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.7	ug/Kg	2	10/20/21	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	10/20/21	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	10/20/21	AW	SW8081B
Chlordane	98	39	ug/Kg	2	10/20/21	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	10/20/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	10/20/21	AW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	10/20/21	AW	SW8081B
Endrin	ND	7.7	ug/Kg	2	10/20/21	AW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	10/20/21	AW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	10/20/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	10/20/21	AW	SW8081B
Heptachlor epoxide	14	7.7	ug/Kg	2	10/20/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	10/20/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/20/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	10/20/21	AW	30 - 150 %
% DCBP (Confirmation)	85		%	2	10/20/21	AW	30 - 150 %
% TCMX	75		%	2	10/20/21	AW	30 - 150 %
% TCMX (Confirmation)	77		%	2	10/20/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	480	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	540	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	440	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	420	270	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	480	270	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	500	270	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	900	270	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	450	270	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	340	270	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	840	270	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	64		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	58		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	82		%	1	10/16/21	WB	30 - 130 %

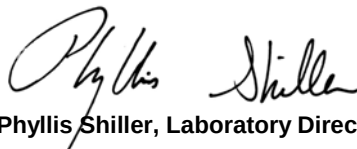
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

<u>Date</u>	<u>Time</u>
10/15/21	10:48
10/15/21	15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59076

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	3.68	0.79	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	63.4	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	1.03	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	24.3	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	0.06	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	31.4	0.39	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	88		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	84		%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	79		%	1	10/16/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	70	7.4	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	37	7.4	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	49	37	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	76		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	92		%	2	10/19/21	AW	30 - 150 %
% TCMX	68		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	74		%	2	10/19/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	69		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	74		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	82		%	1	10/16/21	WB	30 - 130 %

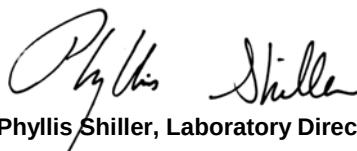
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 10:57
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59078

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	3.69	0.68	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	41.0	0.34	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.55	0.34	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	19.6	0.34	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	10/20/21	AP	SW7471B
Lead	16.8	0.34	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	88		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	81		%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	75		%	1	10/16/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	1.7	1.5	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	52	7.5	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	41	7.5	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	37	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	86		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	86		%	2	10/19/21	AW	30 - 150 %
% TCMX	70		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	82		%	2	10/19/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	66		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	59		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	84		%	1	10/16/21	WB	30 - 130 %

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:

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 11:06
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59081

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-35

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	10/19/21	EK	SW6010D
Arsenic	1.90	0.80	mg/Kg	1	10/19/21	EK	SW6010D
Barium	52.1	0.40	mg/Kg	1	10/19/21	EK	SW6010D
Cadmium	0.76	0.40	mg/Kg	1	10/19/21	EK	SW6010D
Chromium	18.8	0.40	mg/Kg	1	10/19/21	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/21/21	AP	SW7471B
Lead	6.07	0.40	mg/Kg	1	10/19/21	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	10/19/21	EK	SW6010D
Percent Solid	84		%		10/18/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/21/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/18/21	I/L	SW3545A
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/18/21	B/Y	SW3545A
Total Metals Digest	Completed				10/18/21	M/AG	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	10/19/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/19/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	78		%	1	10/19/21	JRB	50 - 150 %
% Terphenyl (surr)	70		%	1	10/19/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	39	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	70		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	71		%	2	10/19/21	AW	30 - 150 %
% TCMX	58		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	61		%	2	10/19/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	10/18/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	81		%	1	10/18/21	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	10/18/21	WB	30 - 130 %
% Terphenyl-d14	81		%	1	10/18/21	WB	30 - 130 %

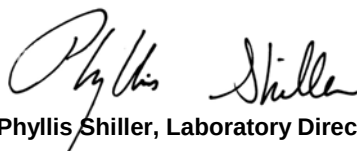
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

<u>Date</u>	<u>Time</u>
10/15/21	11:28
10/15/21	15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59082

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		10/15/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546

Pesticides

4,4' -DDD	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	97	40	ug/Kg	10	10/19/21	AW	SW8081B
4,4' -DDT	83	40	ug/Kg	10	10/19/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/19/21	AW	SW8081B

QA/QC Surrogates

% DCBP	75		%	2	10/19/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	76		%	2	10/19/21	AW	30 - 150 %
% TCMX	61		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	65		%	2	10/19/21	AW	30 - 150 %

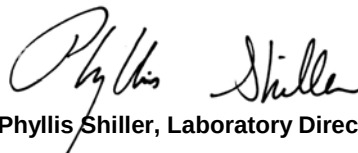
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Comments:

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 11:30
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59084

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	69		%		11/12/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				11/12/21	O/L	SW3545A

Pesticides

4,4' -DDD	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
4,4' -DDE	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
4,4' -DDT	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
a-BHC	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
Alachlor	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Aldrin	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
b-BHC	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
Chlordane	ND	47	ug/Kg	2	11/15/21	AW	SW8081B
d-BHC	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
Dieldrin	ND	4.7	ug/Kg	2	11/15/21	AW	SW8081B
Endosulfan I	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endosulfan II	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endosulfan sulfate	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endrin	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endrin aldehyde	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endrin ketone	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
g-BHC	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
Heptachlor	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Heptachlor epoxide	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Methoxychlor	ND	47	ug/Kg	2	11/15/21	AW	SW8081B
Toxaphene	ND	190	ug/Kg	2	11/15/21	AW	SW8081B

QA/QC Surrogates

% DCBP	96		%	2	11/15/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	75		%	2	11/15/21	AW	30 - 150 %
% TCMX	80		%	2	11/15/21	AW	30 - 150 %
% TCMX (Confirmation)	80		%	2	11/15/21	AW	30 - 150 %

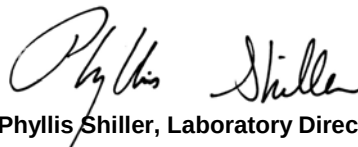
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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 11:41
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59085

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		10/15/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546

Pesticides

4,4' -DDD	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	100	41	ug/Kg	10	10/19/21	AW	SW8081B
4,4' -DDT	90	41	ug/Kg	10	10/19/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	41	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/19/21	AW	SW8081B

QA/QC Surrogates

% DCBP	69		%	2	10/19/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	69		%	2	10/19/21	AW	30 - 150 %
% TCMX	55		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	60		%	2	10/19/21	AW	30 - 150 %

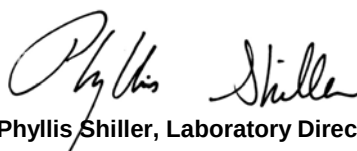
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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 11:43
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59087

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	70		%		11/12/21	Q	SW846-%Solid
Soil Extraction for Pesticide	Completed				11/12/21	O/L	SW3545A

Pesticides

4,4' -DDD	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
4,4' -DDE	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
4,4' -DDT	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
a-BHC	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
Alachlor	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Aldrin	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
b-BHC	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
Chlordane	ND	47	ug/Kg	2	11/15/21	AW	SW8081B
d-BHC	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
Dieldrin	ND	4.7	ug/Kg	2	11/15/21	AW	SW8081B
Endosulfan I	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endosulfan II	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endosulfan sulfate	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endrin	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endrin aldehyde	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Endrin ketone	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
g-BHC	ND	1.9	ug/Kg	2	11/15/21	AW	SW8081B
Heptachlor	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Heptachlor epoxide	ND	9.4	ug/Kg	2	11/15/21	AW	SW8081B
Methoxychlor	ND	47	ug/Kg	2	11/15/21	AW	SW8081B
Toxaphene	ND	190	ug/Kg	2	11/15/21	AW	SW8081B

QA/QC Surrogates

% DCBP	88		%	2	11/15/21	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% DCBP (Confirmation)	73		%	2	11/15/21	AW	30 - 150 %
% TCMX	75		%	2	11/15/21	AW	30 - 150 %
% TCMX (Confirmation)	75		%	2	11/15/21	AW	30 - 150 %

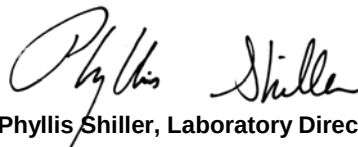
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 12:00
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59088

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	3.57	0.73	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	33.1	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.57	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	19.9	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	16.4	0.36	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	83		%		10/15/21	Q	SW846-%Solid
Soil Extraction for PCB	Completed				10/18/21	O/E	SW3545A
Soil Extraction for Pesticide	Completed				10/18/21	O/E	SW3545A
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	88	%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	84	%	1	10/16/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1221	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1232	ND	400	ug/Kg	10	10/19/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1248	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1254	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1260	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1262	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1268	ND	400	ug/Kg	10	10/19/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	10	10/19/21	SC	30 - 150 %
% DCBP (Confirmation)	88		%	10	10/19/21	SC	30 - 150 %
% TCMX	74		%	10	10/19/21	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	10/19/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	26	8.0	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	41	8.0	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	74		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	78		%	2	10/19/21	AW	30 - 150 %
% TCMX	67		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	74		%	2	10/19/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	69		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	80		%	1	10/16/21	WB	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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 13:13
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59090

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	2.62	0.69	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	47.9	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.61	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	21.0	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	18.3	0.35	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	86		%		10/15/21	Q	SW846-%Solid
Soil Extraction for PCB	Completed				10/18/21	O/E	SW3545A
Soil Extraction for Pesticide	Completed				10/18/21	O/E	SW3545A
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y/L	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	99		%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	86		%	1	10/16/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	380	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	10/19/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	380	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	10/19/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	88		%	10	10/19/21	SC	30 - 150 %
% DCBP (Confirmation)	71		%	10	10/19/21	SC	30 - 150 %
% TCMX	78		%	10	10/19/21	SC	30 - 150 %
% TCMX (Confirmation)	68		%	10	10/19/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	4.4	1.5	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	8.5	1.5	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Alachlor	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	38	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	59		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	67		%	2	10/19/21	AW	30 - 150 %
% TCMX	61		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	52		%	2	10/19/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	330	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	330	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	300	260	ug/Kg	1	10/16/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	340	260	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	490	260	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	560	260	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	69		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	87		%	1	10/16/21	WB	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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 13:25
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59091

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	3.24	0.82	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	63.7	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.70	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	26.0	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	13.1	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	79		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/15/21	I/Y/L	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	10/16/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/16/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	96	%	1	10/16/21	JRB	50 - 150 %
% Terphenyl (surr)	84	%	1	10/16/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	62		%	2	10/19/21	AW	30 - 150 %
% TCMX	53		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	57		%	2	10/19/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	ND	290	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	71		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	67		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	91		%	1	10/16/21	WB	30 - 130 %

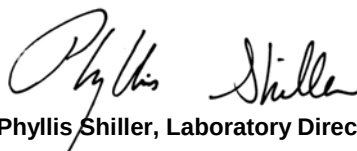
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 13:37
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59092

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-28

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	3.51	0.83	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	62.8	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.78	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	26.9	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	24.0	0.41	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	83		%		10/15/21	Q	SW846-%Solid
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/18/21	I/L	SW3546
Soil Extraction for Pesticide	Completed				10/18/21	B/Y	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	10/19/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/19/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	85	%	1	10/19/21	JRB	50 - 150 %
% Terphenyl (surr)	81	%	1	10/19/21	JRB	50 - 150 %

Pesticides

4,4' -DDD	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	6.9	1.6	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	10	7.9	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Alachlor	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	40	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	65		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	73		%	2	10/19/21	AW	30 - 150 %
% TCMX	61		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	70		%	2	10/19/21	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	280	280	ug/Kg	1	10/16/21	WB	SW8270D

QA/QC Surrogates

% 2-Fluorobiphenyl	72		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	87		%	1	10/16/21	WB	30 - 130 %

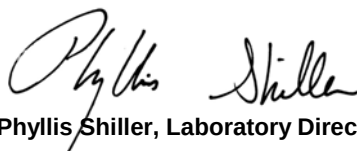
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

10/15/21

Time

15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59093

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Arsenic	3.34	0.83	mg/Kg	1	10/18/21	CPP	SW6010D
Barium	60.2	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Cadmium	0.78	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Chromium	25.6	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	10/20/21	AP:	SW7471B
Lead	20.7	0.42	mg/Kg	1	10/18/21	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	10/18/21	CPP	SW6010D
Percent Solid	80		%		10/15/21	Q	SW846-%Solid
Soil Extraction for PCB	Completed				10/18/21	O/E	SW3545A
Soil Extraction for Pesticide	Completed				10/18/21	O/E	SW3545A
Mercury Digestion	Completed				10/17/21	AB/AB	SW7471B
Extraction of ETPH	Completed				10/18/21	I/L	SW3546
Soil Extraction for SVOA PAH	Completed				10/15/21	R/L	SW3546
Total Metals Digest	Completed				10/15/21	B/BF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	10/19/21	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/19/21	JRB	CTETPH 8015D

QA/QC Surrogates

% COD (surr)	69	%	1	10/19/21	JRB	50 - 150 %
% Terphenyl (surr)	76	%	1	10/19/21	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	420	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1221	ND	420	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1232	ND	420	ug/Kg	10	10/19/21	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	420	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1248	ND	420	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1254	ND	420	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1260	ND	420	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1262	ND	420	ug/Kg	10	10/19/21	SC	SW8082A
PCB-1268	ND	420	ug/Kg	10	10/19/21	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	76		%	10	10/19/21	SC	30 - 150 %
% DCBP (Confirmation)	73		%	10	10/19/21	SC	30 - 150 %
% TCMX	64		%	10	10/19/21	SC	30 - 150 %
% TCMX (Confirmation)	67		%	10	10/19/21	SC	30 - 150 %
<u>Pesticides</u>							
4,4' -DDD	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDE	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
4,4' -DDT	4.8	1.7	ug/Kg	2	10/19/21	AW	SW8081B
a-BHC	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
Aldrin	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
b-BHC	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/19/21	AW	SW8081B
d-BHC	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
Endrin	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	10/19/21	AW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/19/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/19/21	AW	SW8081B
<u>QA/QC Surrogates</u>							
% DCBP	64		%	2	10/19/21	AW	30 - 150 %
% DCBP (Confirmation)	75		%	2	10/19/21	AW	30 - 150 %
% TCMX	66		%	2	10/19/21	AW	30 - 150 %
% TCMX (Confirmation)	63		%	2	10/19/21	AW	30 - 150 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benz(a)anthracene	300	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(a)pyrene	340	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(b)fluoranthene	290	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Benzo(k)fluoranthene	300	280	ug/Kg	1	10/16/21	WB	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	310	280	ug/Kg	1	10/16/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluoranthene	520	280	ug/Kg	1	10/16/21	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	10/16/21	WB	SW8270D
Pyrene	530	280	ug/Kg	1	10/16/21	WB	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	69		%	1	10/16/21	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	10/16/21	WB	30 - 130 %
% Terphenyl-d14	86		%	1	10/16/21	WB	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

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date

10/15/21 14:20
10/15/21 15:50

Time

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59096

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-32

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				10/15/21		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
1,1,2-Trichloroethane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,1-Dichloroethene	ND	140	ug/Kg	50	10/19/21	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
1,2-Dibromoethane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,2-Dichloroethane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
1,2-Dichloropropane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
2-Hexanone	ND	700	ug/Kg	50	10/19/21	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	10/19/21	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	10/19/21	JLI	SW8260
Acrylonitrile	ND	25	ug/Kg	50	10/19/21	JLI	SW8260
Benzene	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Bromodichloromethane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Bromoform	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Bromomethane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Carbon tetrachloride	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Chloroethane	ND	150	ug/Kg	50	10/19/21	JLI	SW8260
Chloroform	ND	120	ug/Kg	50	10/19/21	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
cis-1,3-Dichloropropene	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Dibromochloromethane	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Hexachlorobutadiene	ND	200	ug/Kg	50	10/19/21	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	10/19/21	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Methylene chloride	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Styrene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Tetrachloroethene	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Tetrahydrofuran (THF)	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Toluene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
trans-1,3-Dichloropropene	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	10/19/21	JLI	SW8260
Trichloroethene	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	10/19/21	JLI	SW8260
Vinyl chloride	ND	100	ug/Kg	50	10/19/21	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4 (50x)	99		%	50	10/19/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	90		%	50	10/19/21	JLI	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	10/19/21	JLI	70 - 130 %
% Toluene-d8 (50x)	94		%	50	10/19/21	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.

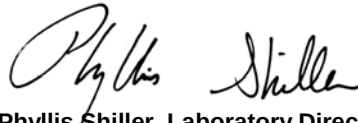
Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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Phyllis Shiller, Laboratory Director

November 16, 2021

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

November 16, 2021

FOR: Attn: Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information

Matrix: SOIL
Location Code: F&O
Rush Request: Standard
P.O.#: 20170277.A30

Custody Information

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

Date Time

10/15/21 14:21
10/15/21 15:50

Laboratory Data

SDG ID: GCJ59064
Phoenix ID: CJ59097

Project ID: WINDSOR MEADOWS STATE PARK
Client ID: 1643211015-33

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				10/15/21		SW5035A
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/19/21	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dibromoethane	ND	0.50	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	10/19/21	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/19/21	JLI	SW8260
Acetone	ND	250	ug/Kg	1	10/19/21	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	10/19/21	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/19/21	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/19/21	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	10/19/21	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/19/21	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/19/21	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/19/21	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	10/19/21	JLI	SW8260
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	99		%	1	10/19/21	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	92		%	1	10/19/21	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	10/19/21	JLI	70 - 130 %
% Toluene-d8	94		%	1	10/19/21	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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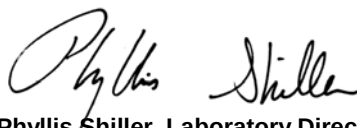
Comments:

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Phyllis Shiller, Laboratory Director

November 16, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 16, 2021

QA/QC Data

SDG I.D.: GCJ59064

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 596627 (mg/kg), QC Sample No: CJ54588 (CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088, CJ59090, CJ59091, CJ59092, CJ59093)

Mercury - Soil BRL 0.02 <0.03 <0.03 NC 122 119 2.5 85.9 70 - 130 30

Comment:

This batch consists of a Blank, Duplicate, LCS, LCSD and MS.

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 597176 (mg/kg), QC Sample No: CJ59081 2X (CJ59081)

Mercury - Soil BRL 0.03 <0.03 <0.03 NC 111 121 8.6 87.7 85.1 3.0 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 596625 (mg/kg), QC Sample No: CJ59094 (CJ59064)

Mercury - Soil BRL 0.03 0.14 0.14 0 104 100 3.9 89.0 76.8 14.7 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 596717 (mg/kg), QC Sample No: CJ58813 (CJ59081)

ICP Metals - Soil

Arsenic	BRL	0.67	<0.72	<0.75	NC	109	111	1.8	93.0			75 - 125	35
Barium	BRL	0.33	49.3	38.0	25.9	111	108	2.7	82.3			75 - 125	35
Cadmium	BRL	0.33	0.41	<0.38	NC	103	101	2.0	92.2			75 - 125	35
Chromium	BRL	0.33	11.9	9.42	23.3	117	113	3.5	90.6			75 - 125	35
Lead	BRL	0.33	4.55	3.73	19.8	103	104	1.0	95.4			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.5	NC	121	118	2.5	94.5			75 - 125	35
Silver	BRL	0.33	<0.36	0.45	NC	101	102	1.0	91.0			75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QA/QC Batch 596560 (mg/kg), QC Sample No: CJ59094 (CJ59064, CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088, CJ59090, CJ59091, CJ59092, CJ59093)

ICP Metals - Soil

Arsenic	BRL	0.67	5.03	2.20	NC	96.7	101	4.4	86.7	86.6	0.1	75 - 125	35
Barium	BRL	0.33	89.2	69.1	25.4	96.7	97.5	0.8	79.5	80.9	1.7	75 - 125	35
Cadmium	BRL	0.33	1.28	0.62	NC	94.5	103	8.6	92.3	90.9	1.5	75 - 125	35
Chromium	BRL	0.33	26.5	18.6	35.0	105	111	5.6	87.1	87.5	0.5	75 - 125	35
Lead	BRL	0.33	65.1	83.3	24.5	99.5	101	1.5	94.0	93.4	0.6	75 - 125	35
Selenium	BRL	1.3	<1.4	<1.5	NC	87.1	93.2	6.8	82.1	83.7	1.9	75 - 125	35
Silver	BRL	0.33	<0.36	<0.37	NC	95.0	97.5	2.6	93.0	91.6	1.5	75 - 125	35

Comment:

Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.



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QA/QC Report

November 16, 2021

QA/QC Data

SDG I.D.: GCJ59064

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 596525 (mg/Kg), QC Sample No: CJ58810 (CJ59090, CJ59091)										
<u>TPH by GC (Extractable Products) - Soil</u>										
Ext. Petroleum H.C. (C9-C36)	ND	50	102	112	9.3	92	77	17.8	60 - 120	30
% COD (surr)	78	%	119	106	11.6	89	93	4.4	50 - 150	30
% Terphenyl (surr)	74	%	92	102	10.3	83	85	2.4	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 596524 (mg/Kg), QC Sample No: CJ59094 (CJ59064, CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	92	86	6.7	70	127	57.9	60 - 120	30	r
% COD (surr)	88	%	103	96	7.0	53	85	46.4	50 - 150	30	r
% Terphenyl (surr)	72	%	85	79	7.3	48	81	51.2	50 - 150	30	m,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 596710 (mg/Kg), QC Sample No: CJ59360 (CJ59081, CJ59092, CJ59093)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	95	81	15.9	84	82	2.4	60 - 120	30	
% COD (surr)	108	%	127	103	20.9	115	114	0.9	50 - 150	30	
% Terphenyl (surr)	94	%	106	63	50.9	89	91	2.2	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 596698 (ug/Kg), QC Sample No: CJ56741 2X (CJ59066, CJ59068, CJ59088, CJ59090, CJ59093)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	75	73	2.7	61	65	6.3	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	80	91	12.9	70	74	5.6	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	78	%	90	100	10.5	81	84	3.6	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm)	88	%	101	91	10.4	88	91	3.4	30 - 150	30	
% TCMX (Surrogate Rec)	79	%	87	83	4.7	70	78	10.8	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm)	83	%	86	87	1.2	69	75	8.3	30 - 150	30	

QA/QC Data

SDG I.D.: GCJ59064

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 596701 (ug/Kg), QC Sample No: CJ56741 2X (CJ59066, CJ59068, CJ59088, CJ59090, CJ59093)										
Pesticides - Soil										
4,4' -DDD	ND	1.7	79	66	17.9	66	69	4.4	40 - 140	30
4,4' -DDE	ND	1.7	75	62	19.0	64	62	3.2	40 - 140	30
4,4' -DDT	ND	1.7	73	62	16.3	59	62	5.0	40 - 140	30
a-BHC	ND	1.0	69	70	1.4	67	60	11.0	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	75	65	14.3	64	61	4.8	40 - 140	30
b-BHC	ND	1.0	75	70	6.9	69	66	4.4	40 - 140	30
Chlordane	ND	33	71	62	13.5	63	61	3.2	40 - 140	30
d-BHC	ND	3.3	73	60	19.5	63	55	13.6	40 - 140	30
Dieldrin	ND	1.0	74	62	17.6	62	61	1.6	40 - 140	30
Endosulfan I	ND	3.3	76	65	15.6	68	64	6.1	40 - 140	30
Endosulfan II	ND	3.3	95	81	15.9	80	79	1.3	40 - 140	30
Endosulfan sulfate	ND	3.3	78	69	12.2	63	65	3.1	40 - 140	30
Endrin	ND	3.3	83	69	18.4	71	73	2.8	40 - 140	30
Endrin aldehyde	ND	3.3	74	59	22.6	58	60	3.4	40 - 140	30
Endrin ketone	ND	3.3	75	68	9.8	62	63	1.6	40 - 140	30
g-BHC	ND	1.0	82	77	6.3	79	72	9.3	40 - 140	30
Heptachlor	ND	3.3	66	66	0.0	64	61	4.8	40 - 140	30
Heptachlor epoxide	ND	3.3	72	66	8.7	66	64	3.1	40 - 140	30
Methoxychlor	ND	3.3	72	64	11.8	61	61	0.0	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	88	%	85	77	9.9	73	76	4.0	30 - 150	30
% DCBP (Confirmation)	91	%	93	80	15.0	83	81	2.4	30 - 150	30
% TCMX	74	%	74	73	1.4	74	68	8.5	30 - 150	30
% TCMX (Confirmation)	78	%	81	80	1.2	78	77	1.3	30 - 150	30
QA/QC Batch 596707 (ug/Kg), QC Sample No: CJ59094 2X (CJ59064, CJ59065, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59081, CJ59082, CJ59085, CJ59091, CJ59092)										
Pesticides - Soil										
4,4' -DDD	ND	1.7	93	85	9.0	69	68	1.5	40 - 140	30
4,4' -DDE	ND	1.7	83	75	10.1	64	64	0.0	40 - 140	30
4,4' -DDT	ND	1.7	79	72	9.3	73	74	1.4	40 - 140	30
a-BHC	ND	1.0	84	79	6.1	66	64	3.1	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	84	75	11.3	66	63	4.7	40 - 140	30
b-BHC	ND	1.0	91	86	5.6	83	78	6.2	40 - 140	30
Chlordane	ND	33	89	80	10.7	60	59	1.7	40 - 140	30
d-BHC	ND	3.3	90	82	9.3	67	66	1.5	40 - 140	30
Dieldrin	ND	1.0	79	72	9.3	60	60	0.0	40 - 140	30
Endosulfan I	ND	3.3	86	79	8.5	62	60	3.3	40 - 140	30
Endosulfan II	ND	3.3	96	91	5.3	66	75	12.8	40 - 140	30
Endosulfan sulfate	ND	3.3	93	85	9.0	65	68	4.5	40 - 140	30
Endrin	ND	3.3	76	70	8.2	58	57	1.7	40 - 140	30
Endrin aldehyde	ND	3.3	86	82	4.8	55	58	5.3	40 - 140	30
Endrin ketone	ND	3.3	91	82	10.4	73	77	5.3	40 - 140	30
g-BHC	ND	1.0	94	83	12.4	67	68	1.5	40 - 140	30
Heptachlor	ND	3.3	79	71	10.7	62	60	3.3	40 - 140	30
Heptachlor epoxide	ND	3.3	92	74	21.7	62	62	0.0	40 - 140	30
Methoxychlor	ND	3.3	122	105	15.0	119	103	14.4	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	97	%	92	86	6.7	67	74	9.9	30 - 150	30

QA/QC Data

SDG I.D.: GCJ59064

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% DCBP (Confirmation)	116	%	109	105	3.7	84	93	10.2	30 - 150	30
% TCMX	95	%	90	79	13.0	72	70	2.8	30 - 150	30
% TCMX (Confirmation)	96	%	89	80	10.7	72	70	2.8	30 - 150	30

QA/QC Batch 600565 (ug/Kg), QC Sample No: CJ60386 2X (CJ59084, CJ59087)

Pesticides - Soil

4,4' -DDD	ND	1.7	82	91	10.4	65	65	0.0	40 - 140	30
4,4' -DDE	ND	1.7	75	86	13.7	61	62	1.6	40 - 140	30
4,4' -DDT	ND	1.7	72	81	11.8	61	60	1.7	40 - 140	30
a-BHC	ND	1.0	69	81	16.0	56	57	1.8	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	68	79	15.0	55	55	0.0	40 - 140	30
b-BHC	ND	1.0	81	91	11.6	68	67	1.5	40 - 140	30
Chlordane	ND	33	74	84	12.7	66	67	1.5	40 - 140	30
d-BHC	ND	3.3	68	78	13.7	54	46	16.0	40 - 140	30
Dieldrin	ND	1.0	73	83	12.8	58	58	0.0	40 - 140	30
Endosulfan I	ND	3.3	77	84	8.7	63	62	1.6	40 - 140	30
Endosulfan II	ND	3.3	83	94	12.4	67	67	0.0	40 - 140	30
Endosulfan sulfate	ND	3.3	88	98	10.8	72	71	1.4	40 - 140	30
Endrin	ND	3.3	73	85	15.2	60	59	1.7	40 - 140	30
Endrin aldehyde	ND	3.3	68	78	13.7	60	60	0.0	40 - 140	30
Endrin ketone	ND	3.3	80	90	11.8	62	63	1.6	40 - 140	30
g-BHC	ND	1.0	72	84	15.4	61	62	1.6	40 - 140	30
Heptachlor	ND	3.3	66	77	15.4	55	57	3.6	40 - 140	30
Heptachlor epoxide	ND	3.3	71	81	13.2	59	58	1.7	40 - 140	30
Methoxychlor	ND	3.3	78	88	12.0	63	62	1.6	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	106	%	100	109	8.6	81	80	1.2	30 - 150	30
% DCBP (Confirmation)	82	%	77	84	8.7	80	67	17.7	30 - 150	30
% TCMX	85	%	81	91	11.6	68	68	0.0	30 - 150	30
% TCMX (Confirmation)	85	%	81	89	9.4	68	70	2.9	30 - 150	30

QA/QC Batch 598270 (ug/Kg), QC Sample No: CJ65845 2X (CJ59067, CJ59071, CJ59073)

Pesticides - Soil

4,4' -DDD	ND	1.7	67	67	0.0	60	64	6.5	40 - 140	30
4,4' -DDE	ND	1.7	62	63	1.6	56	56	0.0	40 - 140	30
4,4' -DDT	ND	1.7	50	56	11.3	57	55	3.6	40 - 140	30
a-BHC	ND	1.0	58	60	3.4	49	48	2.1	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	56	58	3.5	50	49	2.0	40 - 140	30
b-BHC	ND	1.0	100	60	50.0	57	57	0.0	40 - 140	30
Chlordane	ND	33	59	61	3.3	55	55	0.0	40 - 140	30
d-BHC	ND	3.3	60	54	10.5	52	52	0.0	40 - 140	30
Dieldrin	ND	1.0	55	55	0.0	50	49	2.0	40 - 140	30
Endosulfan I	ND	3.3	58	60	3.4	51	53	3.8	40 - 140	30
Endosulfan II	ND	3.3	72	73	1.4	62	64	3.2	40 - 140	30
Endosulfan sulfate	ND	3.3	83	80	3.7	77	71	8.1	40 - 140	30
Endrin	ND	3.3	54	54	0.0	51	49	4.0	40 - 140	30
Endrin aldehyde	ND	3.3	60	59	1.7	59	60	1.7	40 - 140	30
Endrin ketone	ND	3.3	67	64	4.6	60	63	4.9	40 - 140	30
g-BHC	ND	1.0	62	64	3.2	55	54	1.8	40 - 140	30
Heptachlor	ND	3.3	57	59	3.4	51	51	0.0	40 - 140	30
Heptachlor epoxide	ND	3.3	56	60	6.9	53	53	0.0	40 - 140	30
Methoxychlor	ND	3.3	66	69	4.4	53	64	18.8	40 - 140	30

QA/QC Data

SDG I.D.: GCJ59064

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	82	%	69	74	7.0	74	72	2.7	30 - 150	30
% DCBP (Confirmation)	78	%	70	74	5.6	67	69	2.9	30 - 150	30
% TCMX	66	%	54	59	8.8	51	52	1.9	30 - 150	30
% TCMX (Confirmation)	73	%	62	70	12.1	60	62	3.3	30 - 150	30

QA/QC Batch 596708 (ug/kg), QC Sample No: CJ59081 (CJ59081)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	63	69	9.1	65	72	10.2	40 - 140	30
Acenaphthene	ND	230	74	76	2.7	72	81	11.8	30 - 130	30
Acenaphthylene	ND	230	69	70	1.4	66	74	11.4	40 - 140	30
Anthracene	ND	230	79	78	1.3	74	82	10.3	40 - 140	30
Benz(a)anthracene	ND	230	84	83	1.2	80	85	6.1	40 - 140	30
Benzo(a)pyrene	ND	230	78	76	2.6	70	76	8.2	40 - 140	30
Benzo(b)fluoranthene	ND	230	81	76	6.4	73	80	9.2	40 - 140	30
Benzo(ghi)perylene	ND	230	87	81	7.1	73	80	9.2	40 - 140	30
Benzo(k)fluoranthene	ND	230	74	75	1.3	68	76	11.1	40 - 140	30
Chrysene	ND	230	88	86	2.3	83	89	7.0	40 - 140	30
Dibenz(a,h)anthracene	ND	230	83	78	6.2	73	79	7.9	40 - 140	30
Fluoranthene	ND	230	79	75	5.2	73	80	9.2	40 - 140	30
Fluorene	ND	230	70	74	5.6	67	75	11.3	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	86	83	3.6	75	81	7.7	40 - 140	30
Naphthalene	ND	230	63	70	10.5	64	75	15.8	40 - 140	30
Phenanthrene	ND	230	81	80	1.2	75	82	8.9	40 - 140	30
Pyrene	ND	230	74	70	5.6	68	73	7.1	30 - 130	30
% 2-Fluorobiphenyl	81	%	64	67	4.6	64	72	11.8	30 - 130	30
% Nitrobenzene-d5	86	%	71	83	15.6	69	81	16.0	30 - 130	30
% Terphenyl-d14	86	%	86	81	6.0	79	85	7.3	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 596526 (ug/kg), QC Sample No: CJ59094 (CJ59064, CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088, CJ59090, CJ59091, CJ59092, CJ59093)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	70	75	6.9	78	78	0.0	40 - 140	30
Acenaphthene	ND	230	75	82	8.9	85	82	3.6	30 - 130	30
Acenaphthylene	ND	230	71	74	4.1	72	78	8.0	40 - 140	30
Anthracene	ND	230	74	80	7.8	81	81	0.0	40 - 140	30
Benz(a)anthracene	ND	230	72	83	14.2	81	81	0.0	40 - 140	30
Benzo(a)pyrene	ND	230	83	93	11.4	73	77	5.3	40 - 140	30
Benzo(b)fluoranthene	ND	230	118	109	7.9	85	84	1.2	40 - 140	30
Benzo(ghi)perylene	ND	230	111	100	10.4	48	63	27.0	40 - 140	30
Benzo(k)fluoranthene	ND	230	117	99	16.7	80	80	0.0	40 - 140	30
Chrysene	ND	230	74	81	9.0	83	85	2.4	40 - 140	30
Dibenz(a,h)anthracene	ND	230	124	109	12.9	60	69	14.0	40 - 140	30
Fluoranthene	ND	230	78	86	9.8	82	85	3.6	40 - 140	30
Fluorene	ND	230	76	80	5.1	86	84	2.4	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	123	112	9.4	49	63	25.0	40 - 140	30
Naphthalene	ND	230	71	73	2.8	75	75	0.0	40 - 140	30
Phenanthrene	ND	230	74	80	7.8	81	84	3.6	40 - 140	30
Pyrene	ND	230	78	85	8.6	87	91	4.5	30 - 130	30
% 2-Fluorobiphenyl	74	%	65	68	4.5	71	68	4.3	30 - 130	30
% Nitrobenzene-d5	73	%	67	76	12.6	78	78	0.0	30 - 130	30

QA/QC Data

SDG I.D.: GCJ59064

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Terphenyl-d14	90	%	84	93	10.2	89	88	1.1	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 598079 (ug/kg), QC Sample No: CJ65287 (CJ59067)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	74	72	2.7	73	69	5.6	40 - 140	30
Acenaphthene	ND	230	78	79	1.3	81	75	7.7	30 - 130	30
Acenaphthylene	ND	230	72	72	0.0	72	68	5.7	40 - 140	30
Anthracene	ND	230	73	73	0.0	76	72	5.4	40 - 140	30
Benz(a)anthracene	ND	230	74	75	1.3	80	74	7.8	40 - 140	30
Benzo(a)pyrene	ND	230	73	73	0.0	76	71	6.8	40 - 140	30
Benzo(b)fluoranthene	ND	230	78	79	1.3	79	76	3.9	40 - 140	30
Benzo(ghi)perylene	ND	230	78	79	1.3	80	78	2.5	40 - 140	30
Benzo(k)fluoranthene	ND	230	73	74	1.4	77	72	6.7	40 - 140	30
Chrysene	ND	230	75	75	0.0	79	74	6.5	40 - 140	30
Dibenz(a,h)anthracene	ND	230	79	79	0.0	81	78	3.8	40 - 140	30
Fluoranthene	ND	230	74	75	1.3	79	73	7.9	40 - 140	30
Fluorene	ND	230	76	76	0.0	78	73	6.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	230	80	81	1.2	83	80	3.7	40 - 140	30
Naphthalene	ND	230	70	68	2.9	68	64	6.1	40 - 140	30
Phenanthrene	ND	230	74	75	1.3	77	72	6.7	40 - 140	30
Pyrene	ND	230	74	74	0.0	77	74	4.0	30 - 130	30
% 2-Fluorobiphenyl	63	%	66	65	1.5	66	62	6.3	30 - 130	30
% Nitrobenzene-d5	66	%	68	68	0.0	68	64	6.1	30 - 130	30
% Terphenyl-d14	75	%	79	80	1.3	83	78	6.2	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 597036 (ug/kg), QC Sample No: CJ56738 (CJ59068, CJ59097)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	104	112	7.4	98	97	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	93	99	6.3	88	86	2.3	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	97	108	10.7	95	91	4.3	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	99	108	8.7	98	93	5.2	70 - 130	30
1,1-Dichloroethane	ND	5.0	79	84	6.1	90	90	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	102	107	4.8	92	90	2.2	70 - 130	30
1,1-Dichloropropene	ND	5.0	101	105	3.9	94	91	3.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	108	118	8.8	67	59	12.7	70 - 130	30 m
1,2,3-Trichloropropane	ND	5.0	89	100	11.6	90	86	4.5	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	112	120	6.9	69	60	14.0	70 - 130	30 m
1,2,4-Trimethylbenzene	ND	1.0	108	115	6.3	88	84	4.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	105	120	13.3	97	91	6.4	70 - 130	30
1,2-Dibromoethane	ND	5.0	104	116	10.9	103	100	3.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	104	110	5.6	82	77	6.3	70 - 130	30
1,2-Dichloroethane	ND	5.0	92	99	7.3	90	87	3.4	70 - 130	30
1,2-Dichloropropane	ND	5.0	95	101	6.1	94	90	4.3	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	107	113	5.5	87	83	4.7	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	106	111	4.6	83	78	6.2	70 - 130	30
1,3-Dichloropropane	ND	5.0	101	109	7.6	101	99	2.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	103	109	5.7	82	76	7.6	70 - 130	30
2,2-Dichloropropane	ND	5.0	102	103	1.0	89	88	1.1	70 - 130	30

QA/QC Data

SDG I.D.: GCJ59064

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Chlorotoluene	ND	5.0	104	110	5.6	88	84	4.7	70 - 130	30
2-Hexanone	ND	25	99	115	15.0	94	90	4.3	70 - 130	30
2-Isopropyltoluene	ND	5.0	107	113	5.5	80	77	3.8	70 - 130	30
4-Chlorotoluene	ND	5.0	103	110	6.6	87	84	3.5	70 - 130	30
4-Methyl-2-pentanone	ND	25	98	109	10.6	99	94	5.2	70 - 130	30
Acetone	ND	10	85	93	9.0	78	73	6.6	70 - 130	30
Acrylonitrile	ND	5.0	78	88	12.0	90	86	4.5	70 - 130	30
Benzene	ND	1.0	100	105	4.9	96	94	2.1	70 - 130	30
Bromobenzene	ND	5.0	104	111	6.5	93	89	4.4	70 - 130	30
Bromochloromethane	ND	5.0	99	106	6.8	95	94	1.1	70 - 130	30
Bromodichloromethane	ND	5.0	96	103	7.0	93	91	2.2	70 - 130	30
Bromoform	ND	5.0	109	121	10.4	100	97	3.0	70 - 130	30
Bromomethane	ND	5.0	103	108	4.7	89	90	1.1	70 - 130	30
Carbon Disulfide	ND	5.0	100	105	4.9	85	84	1.2	70 - 130	30
Carbon tetrachloride	ND	5.0	85	90	5.7	78	77	1.3	70 - 130	30
Chlorobenzene	ND	5.0	102	109	6.6	94	91	3.2	70 - 130	30
Chloroethane	ND	5.0	101	105	3.9	95	96	1.0	70 - 130	30
Chloroform	ND	5.0	94	99	5.2	90	89	1.1	70 - 130	30
Chloromethane	ND	5.0	96	100	4.1	88	87	1.1	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	99	104	4.9	99	95	4.1	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	102	109	6.6	96	94	2.1	70 - 130	30
Dibromochloromethane	ND	3.0	104	113	8.3	100	97	3.0	70 - 130	30
Dibromomethane	ND	5.0	98	107	8.8	96	93	3.2	70 - 130	30
Dichlorodifluoromethane	ND	5.0	97	102	5.0	87	86	1.2	70 - 130	30
Ethylbenzene	ND	1.0	105	112	6.5	96	92	4.3	70 - 130	30
Hexachlorobutadiene	ND	5.0	104	111	6.5	45	40	11.8	70 - 130	30 m
Isopropylbenzene	ND	1.0	107	114	6.3	94	91	3.2	70 - 130	30
m&p-Xylene	ND	2.0	106	113	6.4	96	92	4.3	70 - 130	30
Methyl ethyl ketone	ND	5.0	86	97	12.0	83	76	8.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	101	109	7.6	97	94	3.1	70 - 130	30
Methylene chloride	ND	5.0	93	99	6.3	88	87	1.1	70 - 130	30
Naphthalene	ND	5.0	118	129	8.9	89	80	10.7	70 - 130	30
n-Butylbenzene	ND	1.0	110	116	5.3	69	64	7.5	70 - 130	30 m
n-Propylbenzene	ND	1.0	105	110	4.7	84	82	2.4	70 - 130	30
o-Xylene	ND	2.0	109	116	6.2	99	95	4.1	70 - 130	30
p-Isopropyltoluene	ND	1.0	112	118	5.2	80	76	5.1	70 - 130	30
sec-Butylbenzene	ND	1.0	108	115	6.3	77	74	4.0	70 - 130	30
Styrene	ND	5.0	112	118	5.2	98	93	5.2	70 - 130	30
tert-Butylbenzene	ND	1.0	109	116	6.2	85	82	3.6	70 - 130	30
Tetrachloroethene	ND	5.0	99	104	4.9	86	83	3.6	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	88	100	12.8	89	84	5.8	70 - 130	30
Toluene	ND	1.0	98	104	5.9	94	91	3.2	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	105	110	4.7	95	94	1.1	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	102	110	7.5	98	93	5.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	109	122	11.3	103	98	5.0	70 - 130	30
Trichloroethene	ND	5.0	99	104	4.9	95	92	3.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	97	101	4.0	87	87	0.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	92	95	3.2	79	77	2.6	70 - 130	30
Vinyl chloride	ND	5.0	103	109	5.7	97	97	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	99	99	0.0	97	97	0.0	70 - 130	30
% Bromofluorobenzene	92	%	98	99	1.0	97	96	1.0	70 - 130	30
% Dibromofluoromethane	99	%	99	100	1.0	96	98	2.1	70 - 130	30
% Toluene-d8	95	%	97	97	0.0	96	96	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCJ59064

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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 597036H (ug/kg), QC Sample No: CJ56738 (CJ59096 (50X))										
Volatiles - Soil (High Level)										
1,1,1,2-Tetrachloroethane	ND	5.0	116	117	0.9	101	113	11.2	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	101	102	1.0	89	99	10.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	5.0	110	112	1.8	100	114	13.1	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	107	107	0.0	95	106	10.9	70 - 130	30
1,1-Dichloroethane	ND	5.0	86	102	17.0	89	99	10.6	70 - 130	30
1,1-Dichloroethene	ND	5.0	86	85	1.2	72	85	16.6	70 - 130	30
1,1-Dichloropropene	ND	5.0	115	115	0.0	100	112	11.3	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	134	136	1.5	105	127	19.0	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	104	106	1.9	96	110	13.6	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	141	141	0.0	109	129	16.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	5.0	128	129	0.8	111	124	11.1	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	120	117	2.5	103	121	16.1	70 - 130	30
1,2-Dibromoethane	ND	5.0	119	119	0.0	103	118	13.6	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	121	122	0.8	103	116	11.9	70 - 130	30
1,2-Dichloroethane	ND	5.0	100	100	0.0	88	98	10.8	70 - 130	30
1,2-Dichloropropane	ND	5.0	106	108	1.9	93	104	11.2	70 - 130	30
1,3,5-Trimethylbenzene	ND	5.0	127	127	0.0	110	123	11.2	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	124	125	0.8	106	120	12.4	70 - 130	30
1,3-Dichloropropane	ND	5.0	115	114	0.9	101	114	12.1	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	122	123	0.8	103	116	11.9	70 - 130	30
2,2-Dichloropropane	ND	5.0	105	104	1.0	89	100	11.6	70 - 130	30
2-Chlorotoluene	ND	5.0	123	124	0.8	107	120	11.5	70 - 130	30
2-Hexanone	ND	25	110	109	0.9	102	117	13.7	70 - 130	30
2-Isopropyltoluene	ND	5.0	126	126	0.0	108	122	12.2	70 - 130	30
4-Chlorotoluene	ND	5.0	125	125	0.0	107	121	12.3	70 - 130	30
4-Methyl-2-pentanone	ND	25	105	105	0.0	99	109	9.6	70 - 130	30
Acetone	ND	10	70	64	9.0	59	70	17.1	70 - 130	30
Acrylonitrile	ND	5.0	92	100	8.3	92	103	11.3	70 - 130	30
Benzene	ND	5.0	114	113	0.9	99	109	9.6	70 - 130	30
Bromobenzene	ND	5.0	121	121	0.0	105	120	13.3	70 - 130	30
Bromochloromethane	ND	5.0	104	104	0.0	91	104	13.3	70 - 130	30
Bromodichloromethane	ND	5.0	105	105	0.0	90	101	11.5	70 - 130	30
Bromoform	ND	5.0	115	115	0.0	98	114	15.1	70 - 130	30
Bromomethane	ND	5.0	67	70	4.4	56	65	14.9	70 - 130	30
Carbon Disulfide	ND	5.0	81	80	1.2	65	79	19.4	70 - 130	30
Carbon tetrachloride	ND	5.0	94	91	3.2	78	88	12.0	70 - 130	30
Chlorobenzene	ND	5.0	118	118	0.0	102	115	12.0	70 - 130	30
Chloroethane	ND	5.0	47	48	2.1	43	47	8.9	70 - 130	30
Chloroform	ND	5.0	102	103	1.0	89	100	11.6	70 - 130	30
Chloromethane	ND	5.0	108	108	0.0	92	102	10.3	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	108	109	0.9	96	105	9.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	112	113	0.9	97	110	12.6	70 - 130	30
Dibromochloromethane	ND	3.0	114	115	0.9	97	111	13.5	70 - 130	30
Dibromomethane	ND	5.0	107	106	0.9	93	106	13.1	70 - 130	30
Dichlorodifluoromethane	ND	5.0	98	99	1.0	81	91	11.6	70 - 130	30
Ethylbenzene	ND	5.0	124	123	0.8	108	120	10.5	70 - 130	30
Hexachlorobutadiene	ND	5.0	133	137	3.0	110	128	15.1	70 - 130	30

QA/QC Data

SDG I.D.: GCJ59064

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Isopropylbenzene	ND	5.0	128	129	0.8	113	128	12.4	70 - 130	30
m&p-Xylene	ND	5.0	124	123	0.8	110	120	8.7	70 - 130	30
Methyl ethyl ketone	ND	5.0	91	91	0.0	79	94	17.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	5.0	106	106	0.0	91	101	10.4	70 - 130	30
Methylene chloride	ND	5.0	97	94	3.1	79	89	11.9	70 - 130	30
Naphthalene	ND	5.0	140	140	0.0	115	140	19.6	70 - 130	30
n-Butylbenzene	ND	5.0	135	135	0.0	111	126	12.7	70 - 130	30
n-Propylbenzene	ND	5.0	126	128	1.6	109	124	12.9	70 - 130	30
o-Xylene	ND	5.0	126	126	0.0	109	122	11.3	70 - 130	30
p-Isopropyltoluene	ND	5.0	134	134	0.0	114	128	11.6	70 - 130	30
sec-Butylbenzene	ND	5.0	130	130	0.0	112	126	11.8	70 - 130	30
Styrene	ND	5.0	128	129	0.8	110	122	10.3	70 - 130	30
tert-Butylbenzene	ND	5.0	129	130	0.8	112	127	12.6	70 - 130	30
Tetrachloroethene	ND	5.0	114	116	1.7	100	110	9.5	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	95	97	2.1	89	101	12.6	70 - 130	30
Toluene	ND	5.0	113	113	0.0	103	111	7.5	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	113	111	1.8	94	105	11.1	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	111	112	0.9	97	109	11.7	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	123	123	0.0	110	125	12.8	70 - 130	30
Trichloroethene	ND	5.0	112	113	0.9	99	109	9.6	70 - 130	30
Trichlorofluoromethane	ND	5.0	45	44	2.2	39	43	9.8	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	80	79	1.3	66	78	16.7	70 - 130	30
Vinyl chloride	ND	5.0	103	104	1.0	88	100	12.8	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	98	98	0.0	97	98	1.0	70 - 130	30
% Bromofluorobenzene	89	%	96	96	0.0	95	95	0.0	70 - 130	30
% Dibromofluoromethane	89	%	93	95	2.1	92	93	1.1	70 - 130	30
% Toluene-d8	93	%	95	96	1.0	96	96	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

November 16, 2021

Tuesday, November 16, 2021

Criteria: CT: GAM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCJ59064 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CJ59064	\$PEST_SM	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	370	41	3	3	ug/Kg
CJ59064	\$PEST_SM	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	610	160	3	3	ug/Kg
CJ59064	\$PEST_SM	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	80	41	66	66	ug/Kg
CJ59064	\$PEST_SM	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	37	8.1	3	3	ug/Kg
CJ59064	\$PEST_SM	Chlordane	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	80	41	66	66	ug/Kg
CJ59064	\$PEST_SM	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	15	4.1	7	7	ug/Kg
CJ59065	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CJ59065	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CJ59065	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CJ59065	\$PEST_SM	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	43	7.6	3	3	ug/Kg
CJ59065	\$PEST_SM	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	120	38	66	66	ug/Kg
CJ59065	\$PEST_SM	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	18	7.6	3	3	ug/Kg
CJ59065	\$PEST_SM	Chlordane	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	120	38	66	66	ug/Kg
CJ59066	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC I/C (mg/kg) / APS Organics	11000	2700	7800	7800	ug/Kg
CJ59066	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC I/C (mg/kg) / APS Organics	2800	270	1000	1000	ug/Kg
CJ59066	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	12000	2700	7800	7800	ug/Kg
CJ59066	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	15000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Benz(a)anthracene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	15000	2700	7800	7800	ug/Kg
CJ59066	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	11000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Benzo(ghi)perylene	CT / RSR DEC RES (mg/kg) / APS Organics	9800	2700	8400	8400	ug/Kg
CJ59066	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	2800	270	1000	1000	ug/Kg
CJ59066	\$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	15000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	12000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	15000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	11000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Dibenz(a,h)anthracene	CT / RSR GA,GAA (mg/kg) / APS Organics	2800	270	1000	1000	ug/Kg
CJ59066	\$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	9800	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	15000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	26000	2700	4000	4000	ug/Kg
CJ59066	\$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	6600	270	1000	1000	ug/Kg
CJ59066	\$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	15000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	25000	2700	5600	5600	ug/Kg
CJ59066	\$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	15000	2700	1000	1000	ug/Kg
CJ59066	\$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	5500	270	4000	4000	ug/Kg
CJ59066	\$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	12000	2700	1000	1000	ug/Kg
CJ59066	\$PEST_SM	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	96	39	66	66	ug/Kg
CJ59066	\$PEST_SM	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	240	39	3	3	ug/Kg
CJ59066	\$PEST_SM	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	34	7.8	3	3	ug/Kg
CJ59066	\$PEST_SM	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	95	39	3	3	ug/Kg
CJ59066	\$PEST_SM	Chlordane	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	96	39	66	66	ug/Kg

Tuesday, November 16, 2021

Criteria: CT: GAM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCJ59064 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CJ59067	\$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	5.6	1.5	3	3	ug/Kg
CJ59067	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	41	7.4	3	3	ug/Kg
CJ59067	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	130	37	3	3	ug/Kg
CJ59067	\$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	9.7	3.7	7	7	ug/Kg
CJ59070	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	180	41	3	3	ug/Kg
CJ59070	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	310	41	66	66	ug/Kg
CJ59070	\$PEST_SMR	Endrin	CT / RSR GA,GAA (mg/kg) / APS Organics	47	8.1	40	40	ug/Kg
CJ59070	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	120	41	3	3	ug/Kg
CJ59070	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	310	41	66	66	ug/Kg
CJ59070	\$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	9.5	4.1	7	7	ug/Kg
CJ59070	\$PEST_SMR	Heptachlor epoxide	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	47	8.1	20	20	ug/Kg
CJ59071	\$PEST_SMR	Chlordane	CT / RSR DEC RES (mg/kg) / APS Organics	750	200	490	490	ug/Kg
CJ59071	\$PEST_SMR	Chlordane	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	750	200	490	490	ug/Kg
CJ59071	\$PEST_SMR	Heptachlor epoxide	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	85	40	67	67	ug/Kg
CJ59071	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	750	200	66	66	ug/Kg
CJ59071	\$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	57	40	3	3	ug/Kg
CJ59071	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	170	40	3	3	ug/Kg
CJ59071	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	270	40	3	3	ug/Kg
CJ59071	\$PEST_SMR	Endrin	CT / RSR GA,GAA (mg/kg) / APS Organics	120	40	40	40	ug/Kg
CJ59071	\$PEST_SMR	Heptachlor epoxide	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	85	40	20	20	ug/Kg
CJ59071	\$PEST_SMR	Heptachlor	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	15	8.0	13	13	ug/Kg
CJ59071	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	750	200	66	66	ug/Kg
CJ59071	\$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	20	4.0	7	7	ug/Kg
CJ59072	\$PEST_SMR	Heptachlor epoxide	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	78	7.8	67	67	ug/Kg
CJ59072	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	490	190	66	66	ug/Kg
CJ59072	\$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	22	7.8	3	3	ug/Kg
CJ59072	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	260	39	3	3	ug/Kg
CJ59072	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	280	39	3	3	ug/Kg
CJ59072	\$PEST_SMR	Heptachlor epoxide	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	78	7.8	20	20	ug/Kg
CJ59072	\$PEST_SMR	Dieldrin	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	9.3	3.9	7	7	ug/Kg
CJ59072	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	490	190	66	66	ug/Kg
CJ59074	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	190	39	3	3	ug/Kg
CJ59074	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	200	39	3	3	ug/Kg
CJ59074	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / APS Organics	98	39	66	66	ug/Kg
CJ59074	\$PEST_SMR	Chlordane	CT / RSR GA,GAA (mg/kg) / Pesticides/TPH	98	39	66	66	ug/Kg
CJ59076	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	70	7.4	3	3	ug/Kg
CJ59076	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	37	7.4	3	3	ug/Kg

Tuesday, November 16, 2021

Criteria: CT: GAM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCJ59064 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CJ59078	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	41	7.5	3	3	ug/Kg
CJ59078	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	52	7.5	3	3	ug/Kg
CJ59082	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	97	40	3	3	ug/Kg
CJ59082	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	83	40	3	3	ug/Kg
CJ59085	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	100	41	3	3	ug/Kg
CJ59085	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	90	41	3	3	ug/Kg
CJ59088	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	26	8.0	3	3	ug/Kg
CJ59088	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	41	8.0	3	3	ug/Kg
CJ59090	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	4.4	1.5	3	3	ug/Kg
CJ59090	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	8.5	1.5	3	3	ug/Kg
CJ59092	\$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	6.9	1.6	3	3	ug/Kg
CJ59092	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	10	7.9	3	3	ug/Kg
CJ59093	\$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	4.8	1.7	3	3	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: Fuss & O'Neill, Inc.

Project Location: WINDSOR MEADOWS STATE PARK

Project Number:

Laboratory Sample ID(s): CJ59064-CJ59066,

Sampling Date(s): 10/15/2021

CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59081, CJ59082, CJ59085, CJ59088, CJ59090-CJ59093, CJ59096, CJ59097

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?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ 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)	☐ Yes ☐ No ☒ NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	☒ Yes ☐ No ☐ NA
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? See Sections: ETPH Narration, PEST Narration, VOA Narration.	☐ Yes ☒ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? b) Were these reporting limits met?	☒ Yes ☐ No ☒ Yes ☐ 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?	☐ Yes ☒ No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☒ Yes ☐ 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: Ethan Lee Position: Project Manager

Printed Name: Ethan Lee Date: Tuesday, November 16, 2021

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

November 16, 2021

SDG I.D.: GCJ59064

SDG Comments

Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are 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.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 596524 (Samples: CJ59064, CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088): -----

One or more surrogates is outside of criteria. (% Terphenyl (surr))

QC Batch 596710 (Samples: CJ59081, CJ59092, CJ59093): -----

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% Terphenyl (surr))

Instrument:

AU-FID1 10/16/21-1

Jeff Bucko, Chemist 10/16/21

CJ59090 (1X), CJ59091 (1X)

The initial calibration (ETPH916I) 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 (O16A004_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 10/18/21-1

Jeff Bucko, Chemist 10/18/21

CJ59066 (5X)

The initial calibration (ETPH916I) 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 (O18A003) 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 10/18/21-1

Jeff Bucko, Chemist 10/18/21

CJ59064 (5X), CJ59065 (5X)

The initial calibration (ETPHO11I) 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 (O18A003) 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 10/16/21-1

Jeff Bucko, Chemist 10/16/21

CJ59070 (1X), CJ59072 (1X), CJ59074 (1X), CJ59076 (1X), CJ59078 (1X), CJ59088 (1X)

The initial calibration (ETPHO11I) 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 (O16A004_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 10/19/21-1

Jeff Bucko, Chemist 10/19/21

CJ59092 (1X), CJ59093 (1X)

The initial calibration (ETPHO11I) RSD for the compound list was less than 30% except for the following compounds: None.



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ETPH Narration

As per section 7.2.3, a discrimination check standard was run (O19A005_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 10/16/21-1 Jeff Bucko, Chemist 10/16/21

CJ59068 (1X)

The initial calibration (ETPHO13I) 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 (O16A004_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-XL2 10/19/21-1 Jeff Bucko, Chemist 10/19/21

CJ59081 (1X)

The initial calibration (ETPHO13I) 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 (O19A003_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 596525 (CJ58810)

CJ59090, CJ59091

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 596710 (CJ59360)

CJ59081, CJ59092, CJ59093

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: % Terphenyl (surr)(50.9%)
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 596524 (CJ59094)

CJ59064, CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088

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: % Terphenyl (surr)(48%)
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)(46.4%), % Terphenyl (surr)(51.2%), Ext. Petroleum H.C. (C9-C36)(57.9%)
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.



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SDG I.D.: GCJ59064

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 10/18/21 13:15

Alex Purdue, Chemist 10/18/21

CJ59064, CJ59094

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 10/20/21 08:02

Alex Purdue, Chemist 10/20/21

CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088, CJ59090, CJ59091, CJ59092, CJ59093

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 10/21/21 08:07

Alex Purdue, Chemist 10/21/21

CJ59081

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 596627 (CJ54588)

CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088, CJ59090, CJ59091, CJ59092, CJ59093

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.

This batch consists of a Blank, Duplicate, LCS, LCSD and MS.

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):



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SDG I.D.: GCJ59064

Mercury Narration

Batch 596625 (CJ59094)

CJ59064

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%.

Batch 597176 (CJ59081)

CJ59081

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 10/18/21 08:35 Cindy Pearce, Chemist 10/18/21

CJ59064, CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088, CJ59090, CJ59091, CJ59092, CJ59093, CJ59094

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 10/19/21 08:56 Emily Kolominskaya, Chemist 10/19/21

CJ59081

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 10/20/21 07:57 Tina Hall, Chemist 10/20/21

CJ59066

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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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 596717 (CJ58813)

CJ59081

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 596560 (CJ59094)

CJ59064, CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088, CJ59090, CJ59091, CJ59092, CJ59093

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.
All MSD recoveries were within 75 - 125 with the following exceptions: None.
All MS/MSD 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-ECD1 10/19/21-1

Saadia Chudary, Chemist 10/19/21

CJ59090 (10X)

The initial calibration (PC922AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC922BI) 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-ECD29 10/19/21-1

Saadia Chudary, Chemist 10/19/21

CJ59066 (10X), CJ59068 (10X), CJ59088 (10X), CJ59093 (10X)

The initial calibration (PC1001AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1001BI) 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: CJ59066, CJ59068, CJ59088, CJ59093

Preceding CC O19B022 - None.

Succeeding CC O19B035 - PCB 1016 -16%L (%)

QC (Batch Specific):

Batch 596698 (CJ56741)

CJ59066, CJ59068, CJ59088, CJ59090, CJ59093



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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.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 598270 (Samples: CJ59067, CJ59071, CJ59073): -----

The LCS/LCSD RPD exceeds the method criteria for one analyte. This analyte was not reported in the sample(s). No significant variability is suspected. (b-BHC)

Instrument:

AU-ECD35 10/19/21-1

Adam Werner, Chemist 10/19/21

CJ59090 (2X), CJ59093 (2X)

The initial calibration (PS1019AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1019BI) 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 11/15/21-1

Adam Werner, Chemist 11/15/21

CJ59084 (2X), CJ59087 (2X)

The initial calibration (PS1108AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1108BI) 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: CJ59084, CJ59087

Preceding CC N15B004 - % DCBP 25%H (20%)

Succeeding CC N15B020 - None.

AU-ECD4 10/19/21-1

Adam Werner, Chemist 10/19/21

CJ59065 (2X), CJ59076 (2X)

The initial calibration (PS1013AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1013BI) 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: CJ59065, CJ59076

Preceding CC O19B030 - 4,4'-DDD 29%H (20%), Endrin aldehyde 31%H (20%)

Succeeding CC O19B044 - 4,4'-DDD 38%H (20%), d-BHC 22%H (20%), Endosulfan sulfate 27%H (20%), Endrin aldehyde 40%H (20%), Endrin Ketone 21%H (20%)

AU-ECD4 10/20/21-1

Adam Werner, Chemist 10/20/21

CJ59064 (2X, 10X), CJ59066 (2X, 10X), CJ59070 (10X), CJ59072 (2X, 10X), CJ59074 (2X, 10X)

The initial calibration (PS1013AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1013BI) 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.



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PEST Narration

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 10/28/21-1 Adam Werner, Chemist 10/28/21

CJ59067 (2X), CJ59071 (2X, 10X), CJ59073 (2X)

The initial calibration (PS1023AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1023BI) 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: CJ59067, CJ59071, CJ59073

Preceding CC O28B042 - Endosulfan sulfate 22%H (20%), Methoxychlor 40%H (20%)

Succeeding CC O28B055 - Endrin aldehyde 22%H (20%), Methoxychlor 36%H (20%)

AU-ECD7 10/19/21-1 Adam Werner, Chemist 10/19/21

CJ59064 (200X), CJ59068 (2X), CJ59070 (2X), CJ59078 (2X), CJ59081 (2X), CJ59082 (2X, 10X), CJ59085 (2X, 10X), CJ59088 (2X), CJ59091 (2X), CJ59092 (2X)

The initial calibration (PS1014AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1014BI) 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: CJ59068

Preceding CC O19B043 - None.

Succeeding CC O19B056 - Methoxychlor -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.

AU-ECD7 10/29/21-1 Adam Werner, Chemist 10/29/21

CJ59067 (10X)

The initial calibration (PS1014AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS1014BI) 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.

QC (Batch Specific):

Batch 596701 (CJ56741)

CJ59066, CJ59068, CJ59088, CJ59090, CJ59093

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 598270 (CJ65845)

CJ59067, CJ59071, CJ59073

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: b-BHC(50.0%)



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PEST Narration

Batch 600565 (CJ60386)

CJ59084, CJ59087

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 596707 (CJ59094)

CJ59064, CJ59065, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59081, CJ59082, CJ59085, CJ59091, CJ59092

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:

CHEM06 10/18/21-1

Matt Richard, Chemist 10/18/21

CJ59081 (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_1004):

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 (CHEM06/1018_06-6_BN_1004):

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 10/15/21-1

Matt Richard, Chemist 10/15/21

CJ59064 (1X), CJ59065 (1X), CJ59066 (1X), CJ59068 (1X), CJ59070 (1X), CJ59072 (1X), CJ59074 (1X), CJ59076 (1X), CJ59078 (1X), CJ59088 (1X), CJ59090 (1X), CJ59091 (1X), CJ59092 (1X), CJ59093 (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.



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SDG I.D.: GCJ59064

SVOA Narration

Initial Calibration Evaluation (CHEM19/19_BN_1010):

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 (CHEM19/1015_12-19_BN_1010):

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 10/26/21-1

Matt Richard, Chemist 10/26/21

CJ59067 (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_1019):

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 (CHEM19/1026_06-19_BN_1019):

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 10/18/21-1

Wes Bryon, Chemist 10/18/21

CJ59066 (10X)

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_1005):

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 (CHEM28/1018_03-28_SPLIT_1005):

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

99% of target compounds met criteria.



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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

November 16, 2021

SDG I.D.: GCJ59064

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.

QC (Batch Specific):

Batch 598079 (CJ65287)

CJ59067

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 596526 (CJ59094)

CJ59064, CJ59065, CJ59066, CJ59068, CJ59070, CJ59072, CJ59074, CJ59076, CJ59078, CJ59088, CJ59090, CJ59091, CJ59092, CJ59093

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%)

Batch 596708 (CJ59081)

CJ59081

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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RCP Certification Report

November 16, 2021

SDG I.D.: GCJ59064

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 597036H: -----

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. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, n-Butylbenzene, p-Isopropyltoluene)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone, Bromomethane, Chloroethane, Trichlorofluoromethane)

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. (Naphthalene)

Instrument:

CHEM03 10/19/21-1

Jane Li, Chemist 10/19/21

CJ59068 (1X), CJ59096 (50X), CJ59097 (1X)

Initial Calibration Evaluation (CHEM03/VT-L101421):

99% of target compounds met criteria.

The following compounds had %RSDs >20%: Acetone 28% (20%)

The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.064 (0.1),

Tetrachloroethene 0.173 (0.2)

The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/1018_72-VT-L101421):

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 597036 (CJ56738)

CHEM03 10/19/2021-1

CJ59068(1X), CJ59097(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 597036H (CJ56738)

CHEM03 10/19/2021-1

CJ59096(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(134%), 1,2,4-Trichlorobenzene(141%), Bromomethane(67%), Chloroethane(47%), Hexachlorobutadiene(133%), Naphthalene(140%), n-Butylbenzene(135%), p-Isopropyltoluene(134%), Trichlorofluoromethane(45%)

All LCSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(136%), 1,2,4-Trichlorobenzene(141%), Acetone(64%), Chloroethane(48%), Hexachlorobutadiene(137%), Naphthalene(140%), n-Butylbenzene(135%), p-Isopropyltoluene(134%), Trichlorofluoromethane(44%)



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

November 16, 2021

SDG I.D.: GCJ59064

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.

Temperature Narration

The samples were received at 5.9C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



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☐ 1550 Main Street, Suite 400, Springfield, MA 01103
☐ 108 Myrtle Street, Suite 502, Quincy, MA 02171

- ☐ 540 North Commercial Street, Manchester, NH 03101
☐ 276 Newport Road, New London, NH 03257
☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carleia, Suite 600, Laguna Hills, CA 92653

CHAIN-OF-CUSTODY RECORD

45704

Turnaround

- ☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME: Windsor Meadows State Park
PROJECT LOCATION: Windsor, CT
PROJECT NUMBER: 20170277-A30
LABORATORY: Phoenix

REPORT TO: Stephanie Wierzbicki / Scott Flaherty

INVOICE TO:

P.O. NO.:

Sampler's Signature: *Chas*

Date: 10/15/21

Source Codes:

MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment

SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

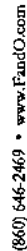
X=Other

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
1					164321/015-01	S	10/15/21	0858
2					-02			0904
3					-03			0930
4					-04			0931
5					-05			0951
6					-06			0952
7					-07			1006
8					-08			1007
9					-09			1023
10					-10			1024

Analysis Request

Containers	Analysis Request									
	PAH	PCB	PCRB	PCRB	PCRB	PCRB	PCRB	PCRB	PCRB	PCRB
Plastic - HNO ₃ 250 ml	X	X	X	X	X	X	X	X	X	X
Plastic - H ₂ SO ₄ 250 ml	X	X	X	X	X	X	X	X	X	X
Plastic - As ₂ S ₃ 250 ml	X	X	X	X	X	X	X	X	X	X
Plastic - As ₂ S ₃ 500 ml	X	X	X	X	X	X	X	X	X	X
Plastic - As ₂ S ₃ 1000 ml	X	X	X	X	X	X	X	X	X	X
Glass Amber () ml	X	X	X	X	X	X	X	X	X	X
Glass Amber () ml	X	X	X	X	X	X	X	X	X	X
Water VOA Val. 250 ml	X	X	X	X	X	X	X	X	X	X
Water VOA Val. 500 ml	X	X	X	X	X	X	X	X	X	X
Water VOA Val. 1000 ml	X	X	X	X	X	X	X	X	X	X
Other										
Soil VOA Val. 250 ml	X	X	X	X	X	X	X	X	X	X
Soil VOA Val. 500 ml	X	X	X	X	X	X	X	X	X	X
Soil VOA Val. 1000 ml	X	X	X	X	X	X	X	X	X	X
Other										

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions:
1	<i>Chas</i>	<i>Grace Colan</i>	10/15	1550	☐ C/T Tax Exempt ☐ QA/QC ☐ Other _____ ☐ Duplicates ☐ Blanks (Item Nos: _____)
2					Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
3					Res DEC, GARM, I/C DEC
4					Additional Comments:



- ☐ 540 North Commercial Street, Manchester, NH 03101
- ☐ 276 Newport Road, New London, NH 03257
- ☐ 205 Billings Farm Road, Suite 6B, White River Junction, VT 05001
- ☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
- ☐ 23046 Avenida de la Carlota, Suite 600, Laguna Hills, CA 92653

45705

Treatment

☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NUMBER

20170d77. A30

P.O. No.:

Sampler's Signature: Claro Date: 6/15/12

Source Codes:
 MW=Monitoring Well
 SW=Surface Water
 PW=Potable Water
 ST=Stormwater
 T=Treatment Facility
 W=Waste
 A=Air
 S=Soil
 C=Concrete
 B=Sediment
 X=Other

X=Other

Item No.	Transfer Check				Sample Number	Source Code	Date Sampled	Time Sampled
	1	2	3	4				
11					164321015-11	S	10/15/21	1035
12					-12			1036
13					-13			1048
14					-14			1049
15					-15			1057
16					-16			1058
17					- ~~16~~ 34			1105
18					- 35			1106
19					- 18			1128
20					- 19			1129

Transfer Number	Relinquished By	Accepted By	Date	Time	Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____ ☒ Duplicates ☐ Blanks (Item Nos: _____)
1	<i>Chao Sun</i>	<i>Ernest Holten</i>	10/15	1550	Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
2					Res DEC, GAPMS, I/C DEC
3					Additional Comments:
4					* Did not recollig - email of client (en)

* Did not receive - encrypted agent to



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- ☐ 540 North Commercial Street, Manchester, NH 03101
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☐ 5 Fletcher Street, Suite 1, Kennebunk, ME 04043
☐ 23046 Avenida de la Carleto, Suite 600, Laguna Hills, CA 92653

CHAIN-OF-CUSTODY RECORD

45706

Turnaround

- ☐ 24-Hour* ☐ 72-Hour* ☐ Other (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME

PROJECT NUMBER

PROJECT LOCATION

Windsor Meadows State Park
Windsor CT

20170277 A30

Windsor CT

LABORATORY

Phoen'x

Windsor Meadows State Park
Windsor CT

REPORT TO: Stephanie Wierzbicki/Scott Flaherty

INVOICE TO:

P.O. NO.:

Sampler's Signature: *Chao Jui* Date: 10/15/11

Source Codes: MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete

X=Other

Transfer Check

Item No.

1 2 3 4

Sample Number

Date Sampled

Time Sampled

Source Code

21 164321/015-20 10/15/11 1130 S

22 164321/015-21 1141

23 -22 1142

24 -23 1143

25 -24 1200

26 -25 1201

27 -26 1313

28 -27 1325

29 -28 1337

30 -29

Analysis Request

PAHs

PCBs

PCDDs

PCDFs

PCB-Metals

PCB-VOCs

PCB-Halides

PCB-Other

Change Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other ()
☒ Duplicates ☐ Blanks (Item Nos.)

Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.

Res DEC, GARC, ILC DEC

Additional Comments:

Transfer Number

1

2

3

4

Relinquished By

Accepted By

Date

Time

10/15

1530

Chao Jui

Summer John

10/15

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Chao Jui

Summer John

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Krystal Delgado

From: Krystal Delgado
Sent: Friday, October 15, 2021 4:05 PM
To: 'SWierszchalek@fando.com'
Subject: Windsor Meadows State Park
Attachments: SKM_458e21101516150.pdf

Importance: High

Good Afternoon,

Samples for the project mentioned above were received at our lab this afternoon, however, we did not receive a jar for sample number "34 and 35".

In addition, we received two jars for sample number 16, and a jar labeled 17 that was not listed on the COC.

Please let us know how you'd like to proceed.

I've attached the COCs for reference.

Thank you.

Krystal Delgado

Sample Receiving
Phoenix Environmental Laboratories
587 East Middle Tpke.
Manchester, CT 06040
krystald@phoenixlabs.com
PH: 860-645-1102 ext:369
FX: 860-645-0823

Krystal Delgado

From: Krystal Delgado
Sent: Monday, October 18, 2021 11:43 AM
To: 'Stefanie Wierszchalek'
Cc: Bobbi Aloisa; Scott Flaherty
Subject: RE: [External] Windsor Meadows State Park

You're welcome Stefanie.

I will go ahead with 1643211015-35.

Please keep me updated with sample jars labeled "16"

Thank you.

From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Monday, October 18, 2021 11:31 AM
To: Krystal Delgado
Cc: Bobbi Aloisa; Scott Flaherty
Subject: RE: [External] Windsor Meadows State Park

Thanks for the photos Krystal,

After reviewing our field notes, I can tell that the sample jar labelled 1643211015-17 should in fact be **1643211015-35** (with a sample time of 11:06). While sample #35 was initially listed on the chain as on HOLD – please go ahead and analyze this sample for PAHs, Pesticides, ETPH and RCRA 8 Metals.

I'm going to continue checking into the two jars labelled -16, but its likely we will not be able to differentiate between these two and may not run either.

Please let me know if you have any further questions or need additional clarification.

Thank you,

Stefanie Wierszchalek
Senior Hydrogeologist
Fuss & O'Neill, Inc. | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5503 | swierszchalek@fando.com | cell: 860.670.4385
www.fando.com | [twitter](#) | [facebook](#) | [linkedin](#)

From: Krystal Delgado <KrystalD@phoenixlabs.com>
Sent: Monday, October 18, 2021 11:09 AM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Cc: Bobbi Aloisa <bobbi@phoenixlabs.com>
Subject: RE: [External] Windsor Meadows State Park

I will make sure those are on hold now.

Please see picture attached.

From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Monday, October 18, 2021 11:04 AM
To: Krystal Delgado
Cc: Bobbi Aloisa
Subject: RE: [External] Windsor Meadows State Park

I'm sorry – samples **1643211015-30** AND **1643211015-31** should be on **HOLD**.

Please confirm these will not be analyzed.

Stefanie Wierszchalek
Senior Hydrogeologist
Fuss & O'Neill, Inc. | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5503 | swierszchalek@fando.com | cell: 860.670.4385
www.fando.com | [twitter](#) | [facebook](#) | [linkedin](#)

From: Stefanie Wierszchalek
Sent: Monday, October 18, 2021 10:58 AM
To: 'Krystal Delgado' <KrystalD@phoenixlabs.com>
Cc: 'Bobbi Aloisa' <bobbi@phoenixlabs.com>
Subject: RE: [External] Windsor Meadows State Park
Importance: High

Also – can you please adjust the chain/samples to indicate that sample number **1643211015-30** should be on **HOLD**. Please do not analyze this sample yet....

Thank you,

Stefanie Wierszchalek
Senior Hydrogeologist
Fuss & O'Neill, Inc. | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5503 | swierszchalek@fando.com | cell: 860.670.4385
www.fando.com | [twitter](#) | [facebook](#) | [linkedin](#)

From: Krystal Delgado <KrystalD@phoenixlabs.com>
Sent: Monday, October 18, 2021 10:32 AM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Subject: RE: [External] Windsor Meadows State Park

Good Morning Stefanie,

Unfortunately, there are no times on the jars for me to match up to the COC.

From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Saturday, October 16, 2021 6:13 AM
To: Krystal Delgado
Subject: RE: [External] Windsor Meadows State Park

Hi Krystal,

I am reviewing the notes and I think I know where the mix up occurred. Please review the sample times on each of the two jars labelled "16" and the one jar labelled "17".

The correct sample numbers/times should be as follows:

- 1643211015-16 Sample time: 10:58
- 1643211015-34 Sample time: 11:05

1643211015-35

Sample time: 11:06

Can you please review and correct the sample numbers on the jars per the sample times? Please let me know if you have any further questions or concerns.

Thank you,

Stefanie Wierszchalek

Senior Hydrogeologist

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860.646.2469 x5503 | swierszchalek@fando.com | cell: 860.670.4385
www.fando.com | [twitter](#) | [facebook](#) | [linkedin](#)

From: Krystal Delgado <KrystalD@phoenixlabs.com>

Sent: Friday, October 15, 2021 4:05 PM

To: Stefanie Wierszchalek <SWierszchalek@fando.com>

Subject: [External] Windsor Meadows State Park

Importance: High

Good Afternoon,

Samples for the project mentioned above were received at our lab this afternoon, however, we did not receive a jar for sample number "34 and 35".

In addition, we received two jars for sample number 16, and a jar labeled 17 that was not listed on the COC.

Please let us know how you'd like to proceed.

I've attached the COCs for reference.

Thank you.

Krystal Delgado

Sample Receiving

Phoenix Environmental Laboratories

587 East Middle Tpke.

Manchester, CT 06040

krystald@phoenixlabs.com

PH: 860-645-1102 ext:369

FX: 860-645-0823

Krystal Delgado

From: Krystal Delgado
Sent: Tuesday, October 19, 2021 1:42 PM
To: Stefanie Wierszchalek
Cc: Bobbi Aloisa
Subject: RE: [External] Windsor Meadows State Park

Thank you for confirming Stefanie!

From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Tuesday, October 19, 2021 1:39 PM
To: Krystal Delgado
Cc: Bobbi Aloisa
Subject: RE: [External] Windsor Meadows State Park

Hi Krystal,

Unfortunately we cannot decipher which "16" sample is which. Please do not analyze either of the samples labelled as "16". Please let me know if you have any other questions or concerns.

Thank you,

Stefanie Wierszchalek
Senior Hydrogeologist
Fuss & O'Neill, Inc. | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5503 | swierszchalek@fando.com | cell: 860.670.4385
www.fando.com | [twitter](#) | [facebook](#) | [linkedin](#)

From: Krystal Delgado <KrystalD@phoenixlabs.com>
Sent: Monday, October 18, 2021 11:43 AM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Cc: Bobbi Aloisa <bobbi@phoenixlabs.com>; Scott Flaherty <sflaherty@fando.com>
Subject: RE: [External] Windsor Meadows State Park

You're welcome Stefanie.

I will go ahead with 1643211015-35.

Please keep me updated with sample jars labeled "16"

Thank you.

From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Monday, October 18, 2021 11:31 AM
To: Krystal Delgado
Cc: Bobbi Aloisa; Scott Flaherty
Subject: RE: [External] Windsor Meadows State Park

Thanks for the photos Krystal,

After reviewing our field notes, I can tell that the sample jar labelled 1643211015-17 should in fact be **1643211015-35** (with a sample time of 11:06).

While sample #35 was initially listed on the chain as on HOLD – please go ahead and analyze this sample for PAHs, Pesticides, ETPH and RCRA 8 Metals.

I'm going to continue checking into the two jars labelled -16, but its likely we will not be able to differentiate between these two and may not run either.

Please let me know if you have any further questions or need additional clarification.

Thank you,

Stefanie Wierszchalek
Senior Hydrogeologist

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From: Krystal Delgado <KrystalD@phoenixlabs.com>
Sent: Monday, October 18, 2021 11:09 AM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Cc: Bobbi Aloisa <bobbi@phoenixlabs.com>
Subject: RE: [External] Windsor Meadows State Park

I will make sure those are on hold now.

Please see picture attached.

From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Monday, October 18, 2021 11:04 AM
To: Krystal Delgado
Cc: Bobbi Aloisa
Subject: RE: [External] Windsor Meadows State Park

I'm sorry – samples **1643211015-30** AND **1643211015-31** should be on **HOLD**.

Please confirm these will not be analyzed.

Stefanie Wierszchalek
Senior Hydrogeologist

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From: Stefanie Wierszchalek
Sent: Monday, October 18, 2021 10:58 AM
To: 'Krystal Delgado' <KrystalD@phoenixlabs.com>
Cc: 'Bobbi Aloisa' <bobbi@phoenixlabs.com>
Subject: RE: [External] Windsor Meadows State Park
Importance: High

Also – can you please adjust the chain/samples to indicate that sample number **1643211015-30** should be on **HOLD**. Please do not analyze this sample yet....

Thank you,

Stefanie Wierszchalek
Senior Hydrogeologist

Fuss & O'Neill, Inc. | 146 Hartford Road | Manchester, CT 06040

From: Krystal Delgado <KrystalD@phoenixlabs.com>
Sent: Monday, October 18, 2021 10:32 AM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Subject: RE: [External] Windsor Meadows State Park

Good Morning Stefanie,

Unfortunately, there are no times on the jars for me to match up to the COC.

From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Saturday, October 16, 2021 6:13 AM
To: Krystal Delgado
Subject: RE: [External] Windsor Meadows State Park

Hi Krystal,

I am reviewing the notes and I think I know where the mix up occurred. Please review the sample times on each of the two jars labelled "16" and the one jar labelled "17".

The correct sample numbers/times should be as follows:

- 1643211015-16 Sample time: 10:58
- 1643211015-34 Sample time: 11:05
- 1643211015-35 Sample time: 11:06

Can you please review and correct the sample numbers on the jars per the sample times? Please let me know if you have any further questions or concerns.

Thank you,

Stefanie Wierszchalek
Senior Hydrogeologist
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From: Krystal Delgado <KrystalD@phoenixlabs.com>
Sent: Friday, October 15, 2021 4:05 PM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Subject: [External] Windsor Meadows State Park
Importance: High

Good Afternoon,

Samples for the project mentioned above were received at our lab this afternoon, however, we did not receive a jar for sample number "34 and 35".

In addition, we received two jars for sample number 16, and a jar labeled 17 that was not listed on the COC.

Please let us know how you'd like to proceed.

I've attached the COCs for reference.

Thank you.

Krystal Delgado

Sample Receiving

Phoenix Environmental Laboratories

587 East Middle Tpke.

Manchester, CT 06040

krystald@phoenixlabs.com

PH: 860-645-1102 ext:369

FX: 860-645-0823

Bobbi Aloisa

From: Stefanie Wierszchalek <SWierszchalek@fando.com>
Sent: Tuesday, October 26, 2021 10:31 AM
To: Bobbi Aloisa
Subject: SDG GCJ59064 - Add On Parameters

Hi Bobbi,

For GCJ59064, please add on the following samples / parameters:

- 1643211015-04 Pesticides & PAHs
- 1643211015-08 Pesticides
- 1643211015-10 Pesticides

Please let me know if you have any questions or need more information.

Thanks, _____



Stefanie Wierszchalek
Senior Hydrogeologist

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Bobbi Aloisa

From: Stefanie Wierszchalek <SWierszchalek@fando.com>
Sent: Friday, November 12, 2021 4:01 PM
To: Bobbi Aloisa
Subject: RE: [External] RE: SDG GCJ59064

Ah I m sorry I had the wrong sample numbers! (Its been a long week)

Please run 1643211015-**20 (59084)** and 1643211015-**23 (59087)** for Pesticides.

Please confirm - Sorry about the confusion!

Have a good weekend, _____

Stefanie Wierszchalek
Senior Hydrogeologist
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From: Bobbi Aloisa <bobbi@phoenixlabs.com>
Sent: Friday, November 12, 2021 3:51 PM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Subject: RE: [External] RE: SDG GCJ59064

Got it

Bobbi Aloisa

Vice President | Director of Client Services
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike | Manchester, CT 06040
Direct Line: (860)-645-8728
www.phoenixlabs.com



From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Friday, November 12, 2021 3:06 PM
To: Bobbi Aloisa
Subject: RE: [External] RE: SDG GCJ59064

Hi Bobbi,

I apologize for the delay.

Please run sample 1643211015-19 (59083) and 1643211015-22 (59086) for Pesticides. Let me know if you have any questions or need more information.

Thank you,

Stefanie Wierszchalek
Senior Hydrogeologist
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From: Bobbi Aloisa <bobbi@phoenixlabs.com>
Sent: Friday, November 12, 2021 10:37 AM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Subject: [External] RE: SDG GCJ59064

Stefanie

We do still have these samples. Please LMK which ones you would like to add onto, past hold time

Bobbi

Bobbi Aloisa

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From: Stefanie Wierszchalek [<mailto:SWierszchalek@fando.com>]
Sent: Thursday, November 11, 2021 1:33 PM
To: Bobbi Aloisa
Subject: SDG GCJ59064

Hi Bobbi,

I wanted to touch base with you and see if you still have the soil samples from SDG GCJ59064 in house. I am contemplating running one of the held samples for pesticides (despite it being out of hold time) but figured I would start by seeing if you still have them.

Thank you,—



Stefanie Wierszchalek
Senior Hydrogeologist

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Appendix D

Limitations of Work Product

LIMITATIONS OF WORK PRODUCT

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5. If the purpose of this project was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous substances, waste or petroleum and chemical products and wastes as defined in the work product, unless otherwise noted, no specific attempt was made to check the compliance of present or past owners or operators of the subject site with Federal, state, or local laws and regulations, environmental or otherwise.
6. If water level readings have been made, these observations were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in

water levels may occur due to variations in rainfall, passage of time and other factors and such fluctuations may affect the conclusions and recommendations presented herein.

7. Except as noted in the work product, no quantitative laboratory testing was performed as part of the project. Where such analyses have been conducted by an outside laboratory, Consultant has relied upon the data provided, and unless otherwise described in the work product has not conducted an independent evaluation of the reliability of these tests.
8. If the conclusions and recommendations contained in the work product are based, in part, upon various types of chemical data, then the conclusions and recommendations are contingent upon the validity of such data. These data (if obtained) have been reviewed and interpretations made by Consultant. If indicated in the work product, some of these data may be preliminary or screening-level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.
9. Chemical analyses may have been performed for specific parameters during the course of this project, as described in the work product. However, it should be noted that additional chemical constituents not included in the analyses conducted for the project may be present in soil, groundwater, surface water, sediments or building materials at the subject site.
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11. Unless otherwise specifically noted in the work product or a requirement of the contract between the Consultant and Client, any reuse, modification or disbursement of documents to third parties will be at the sole risk of the third party and without liability or legal exposure to Consultant.
12. In the event that any questions arise with respect to the scope or meaning of Consultant's work product, immediately contact Consultant for clarification, explanation or to update the work product. In addition, Consultant has the right to verify, at the party's expense, the accuracy of the information contained in the work product, as deemed necessary by Consultant, based upon the passage of time or other material change in conditions since conducting the work.
13. Any use of or reliance on the work product shall constitute acceptance of the terms hereof.