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REMEDIATION DIVISION
LEAKING UNDERGROUND STORAGE TANK COORDINATION PROGRAM
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Part I: Primary Recipient*: Remediation Program (* required)

For Remediation documents:	For LUST documents:
Primary Program*: Brownfield Program	UST Facility ID:
Rem ID*: 14420	Spill Case Number:

Part II: Site Information

Site Name*: Riverfront Land Inc. Properties

Site Address*: Leibert Road / Meadow Road

City/Town*: Hartford/Windsor State: CT Zip Code: 06120

Secondary Programs (complete as many as applicable for this document):

Program: Voluntary Remediation	Project ID: 14420
Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:
Program: Select Secondary Program	Project ID:

Provide Project ID for each secondary program if it is known.
Each program has a unique ID (i.e. Rem ID, Spill Case #, UST Facility ID, etc.)

Part III: Document Information (document type required for appropriate program[s] only)

Remediation*: Phase 3 Report

LUST*: LUST Document Type

Date of Document*: 1/7/2022 Version: Final

Part IV: Submitter Information

Name*: Dan Jahne, LEP

E-mail*: DJahne@fando.com

Name of company/business this document is being submitted on behalf of: *

Riverfront Recapture, Inc.

Phase II/III Environmental Site Assessment

Riverfront Land Inc. Properties

228, 690, 600, & 610 Leibert Road, Hartford, CT
100 & 120 Meadow Road, Windsor, CT
DEEP Remediation No.: 14420

Riverfront Recapture

Hartford, CT

November 2018
Revised January 2022

FUSS & O'NEILL

146 Hartford Road
Manchester, Connecticut 06040

Project No. 20170277.A30

FUSS & O'NEILL

January 7, 2022

Mr. Marc Nicol
Riverfront Recapture, Inc.
50 Columbus Blvd., 1st Floor
Hartford, CT 06106

RE: Phase II/III Environmental Site Assessment
Riverfront Land, Inc. Properties
Fuss & O'Neill Reference Number: 20170277.A30
DEEP Remediation Number: 14420

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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1 Introduction

Fuss & O'Neill, Inc. was retained by Riverfront Recapture, Inc. (RRI) between 2018 and 2021 to conduct Phase II/III Environmental Site Assessments (ESA) of the six Riverfront Land, Inc. (RLI) properties, which include 228, 590, 600, and 610 Leibert Road in Hartford, CT and 100 and 120 Meadow Road in Windsor, CT (the "Site").

Select iterations of the Phase II/III investigations were conducted concurrently with Phase II/III investigations on an approximately 16-acre portion of Windsor Meadows State Park (located adjacent to the Site to the north). Both the RLI properties and the southern portion of Windsor Meadows State Park will be included in the final development plan for use as a recreational area and river access 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

The Site investigation and cleanup is occurring through, the administrative process of Connecticut General Statutes (CGS) Section 22a-133x and the Connecticut Remediation Standard Regulations (RSRs).

On June 4, 2020 Fuss & O'Neill filed an Environmental Condition Assessment Form (ECAF) with the DEEP on behalf of Riverfront Recapture, Inc. to enter the Site in the Voluntary Remediation program pursuant to CGS Section 22a-133x as part of the obligations associated with acceptance into the ABC Program under CGS §32-768. This program requires that the certifying party investigate and remediate the parcel in accordance with prevailing standards and guidelines, including the RSRs.

On September 10, 2020, the DEEP acknowledged receipt of a complete Form III and notified Riverfront Recapture that delegation of verification of investigation and remediation of the Site to a licensed environmental professional (LEP) pursuant to CGS 22a-133v was automatic unless the DEEP provided written notification of their intent to retain oversight within 30 days of the acknowledgment letter.

Analytical results obtained from these investigations were reviewed and compared to the Connecticut 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 (EUR) is recorded.

3 Site Overview

3.1 Physical Description

The Site is located on the south side of Meadow Road, east of the Metro North Railroad, and west of the Connecticut River in Hartford and Windsor, Connecticut (Hartford County). According to City of Hartford and Windsor records, the Site consists of six parcels (four in Hartford and two in Windsor), which encompass approximately 60 acres of land west of the Connecticut River. The four Hartford parcels are located within an industrial district zone of the City, while the two Windsor parcels are located in an agricultural zone of the Town. A portion of a United States Geological Survey (USGS) topographic map showing the Site location is provided as *Figure 1* (USGS, 2013).

The Site parcels have been owned by RLI since September 2019. The acreage of each parcel, based on Assessor's mapping and property cards is listed in the table below.

Address	Acreage
228 Leibert Road, Hartford	14 Acres
590 Leibert Road, Hartford	9.15 Acres
600 Leibert Road, Hartford	36.2 Acres
610 Leibert Road, Hartford	0.423 Acres
100 Meadow Road, Windsor	1.8 Acres
120 Meadow Road, Windsor	0.1 Acres

Former structures located on the Site that were demolished prior to or during the 2021 supplemental Phase III investigation include the following:

Former Structure	Parcel Address	Date of Abatement/Demolition
A vacant, cinder block structure (formerly used as a produce wash house)	100 Meadow Road	August 2020
A vacant, one-family residential dwelling	228 Leibert Road	Abated in August 2020, Demolished in February 2021
A covered storage structure historically used for the storage of river sediment mining equipment	228 Leibert Road	August 2020
Former "barracks" structures (used as housing for farm workers) and a greenhouse formerly located adjacent to the residential dwelling	228 Leibert Road	Prior to 2018 Phase II Investigation

The Site is currently vacant and unused, but was occupied prior to RLI's purchase of the property until 2019 by tenants who used the Site for truck parking (on the northwest portion of the Site) and farming (primarily on the central and eastern portions of the Site). Additionally, Russo Brothers Inc., the former Site owner since at least 1969, used the Site to excavate and process sand, silt, and clay for sale as ice control sand, recreational infield mix, screened topsoil, and clay. The excavation activities resulted in an approximately 1,000 by 300 foot depression area along the eastern portion of the Site which is hydraulically connected to the Connecticut River via a small inlet on the southern end of the riverbank.

In 2018, a portion of the Site (primarily along the western boundary of the Site), was also used as a contractor laydown area for construction equipment related to railroad construction activities for the rail line that abuts the Site to the west.

Site Utilities

The Site is served by municipal sewer and water utilities provided by the Metropolitan District (MDC), and a 33-inch diameter MDC sanitary sewer main bisects the western portion of the Site, approximately along the eastern boundary of the 228 Leibert Road parcel (*Figure 2*). Given the age of some of the former Site structures, former septic systems may have historically been present on the Site, however no evidence of any systems have been identified to date. No drinking water or production wells are located on Site.

The former residential structure located on the Site was heated by fuel oil stored in an approximately 275-gallon above ground storage tank (AST) located in the basement. The AST was emptied, cleaned, and removed from the Site during building demolition activities conducted in August 2020. Both the floor below the AST and the AST were observed to be in good condition with no oil staining evident during the Phase I ESA and during removal of the AST.

The cinder block produce wash structure formerly located on the 100 Meadow Road parcel was historically heated by fuel oil, stored in a 1,000-gallon underground storage tank (UST) which was discovered beneath the footprint of the building in September 2020. The UST was removed in October 2020, and UST closure samples collected. UST removal activities are summarized in a memo dated October 30, 2020, attached as *Appendix A*.

Electric, cable, and telephone services formerly entered the Site to the previous buildings from both overhead and underground wires located on Meadow Road. Specifically, the electric, telephone and cable utilities to the farmhouse were underground while electric to the produce wash building was above ground wires. Telephone to the produce wash building were both above and underground.

Surrounding Land Use

Based on observations made during the field reconnaissance and available mapping, the surrounding land use includes a mix of residential, commercial, and agricultural/recreational land to the north, agricultural land use and the Metro-North Railroad to the west, the Connecticut River to the east, and the Hartford Landfill to the south.

3.2 Site History

The Site was historically used for agricultural purposes dating back to 1934, at which time a residential dwelling, farming "barracks" and several greenhouses were located on the northern portion of the Site. The remainder of the property appeared to be cultivated farmland. The cinder block produce wash building is visible on the 100 Meadow Road parcel in the 1952 aerial photograph. This building was reportedly used as a produce washing and refrigeration storage facility.

Based on information obtained from the DEEP Land and Water Resources Division, permitting for earth excavation activities at the Site was obtained in the early 1970s, at which time the Site was owned by Russo Brothers, Inc. and the Russo family. The first evidence of excavation activities on the Site appears in the 1985 aerial photo in the form of several piles of staged excavated materials along the western portion of the property. A depression along the eastern portion of the Site, likely due to excavation activities, and a long berm along the Connecticut River are also visible in the 1985 aerial photo. Since that time, excavating and fill activities appear to have been regularly conducted along the southern portion of the Site as the Site owner excavated sand and fine-grained material for processing and sale. The 1989 aerial photo looks similar, with the exception of larger excavation areas and storage piles as well as a pond located on the west central portion of the Site. Based on aerial photographs, a pond was present on the west central portion of the Site from approximately 1989 until approximately 1992, where the pond appears to have been filled. Otherwise, the Site remained relatively unchanged from 1989 through 2005, at which time the farmer "barracks" and greenhouses are no longer present in the aerial images.

At the time of 2018/2019 Phase I ESA, the Site appeared much the same as it did in the 2005 through 2012 aerial photos, with excavation activities visible along the eastern portion of the Site, agricultural fields in approximately the center third of the Site, and storage piles and parking areas present along the western portion of the Site.

Between 2018 and present, all Site structures were demolished and the material stockpiles were removed from the Site or used to grade select areas at the Site. During the 2020 Phase III ESA, depressions were observed along the southwest portion of the property as the result of earth excavation activities. By the 2021 supplemental Phase III investigation, the depressions on the southwest portion of the property had been filled in and graded with native soil previously stockpiled on Site. These stockpiles had been sampled and characterized during Site investigation activities (discussed further in *Section 6.2*) and the materials were determined to be suitable for reuse on Site.

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 Site. The proposed trail will extend across the Site, and across the portion of Windsor Meadows State Park operated by RRI to the north, ultimately connecting to the existing Windsor Riverwalk to the north across a proposed pedestrian bridge over Decker's Brook.

Portions of the Site will be developed into public recreation space to provide access to Windsor Meadows State Park (to the north) and to the adjacent Connecticut River. This will include the creation of a cove through the excavation of approximately 200,000 cubic yards (or more) of clean alluvial sand, expanding the floodplain's storage capacity. Excavated material will be used on Site to fill non-wetland areas to elevations that allows for future park improvements and development.

3.4 Environmental Setting

3.4.1 Topography

The topography of the Site is generally flat, while the regional topography slopes gently down to the east towards the Connecticut River (USGS, 2013), which makes up the eastern boundary of the Site.

3.4.2 Geology

Surficial Geology

Surficial material at the site is mapped as alluvium overlying fines, which consist of natural, postglacial materials (Stone, 1992). Surficial materials consistent with those described above were identified throughout the central portion of the Site, directly east of the existing residential structure, and near the covered storage structure during the Phase II/III investigations.

Test pits advanced within the river estuary/cove area in the eastern portion of the Site adjacent to the berm, identified native material consisting of medium to fine grain sand and silt to depths of approximately 10 feet below grade. Between 6.5 to 8 feet, little clay was also identified within the native fine materials in one test pit advanced in the northern portion of the river estuary area.

Urban Fill

Urban fill at varying thicknesses was identified across the Site during Phase II/III investigations. Specifically, fill containing gravel, concrete, brick, coal, asphalt, and metal slag was identified to depths from approximately 8.5 to 11 feet below grade along the riverbank berm located on the eastern side of the Site. Based on observations of the eastern riverbank, it is estimated that fill thickness could potentially extend to depths up to 15 feet below grade (fbg) in this area.

Fill containing asphalt, wood, coal, metal slag, metal fragments, brick, and/or concrete was also observed to depths of approximately 11.5 fbg along the western portion of the Site and to approximately 1.5 fbg in the vicinity of the former produce wash building along the northwest portion of the Site.

Bedrock Geology

Bedrock beneath the Site is mapped as Portland Arkose, which consists of reddish-brown arkose (Rodgers, 1985). Depth to bedrock is estimated to be approximately 50-100 feet below grade throughout the majority of the north and eastern portions of the Site and approximately 10-50 feet below grade along the northwest and western portions of the Site (USGS, 2017).

The advancement of one soil boring (MW-03) on the southwestern portion of the Site (adjacent to the railroad tracks), met with refusal on suspected bedrock at approximately 14 fbg during the 2018 Phase II investigation. Additionally, as part of a September 2021 geotechnical evaluation, bedrock was encountered at approximately 59 feet below grade in a geotechnical boring advanced along the northern bank of Meadow Brook in the southeastern portion of the Site.

Bedrock was not encountered in any other borings or test pits advanced on the Site as part of the Phase II/III investigations.

3.4.3 Hydrogeology

Depth to groundwater at the Site ranges from approximately 7.5 fbg on the southwestern portion of the Site to approximately 15-19 fbg on the northern and eastern portions of the Site. Groundwater elevation data indicates that groundwater at the Site generally flows to the east toward the Connecticut River. Groundwater gauging data collected during the Phase II/III investigation is provided in *Table 2* and a groundwater elevation contour map is provided as *Figure 3*.

It is noted that there are mapped wetlands in the southeastern portion of the Site (within the river estuary) and Meadow Brook, which directly abuts the Site to the south, both of which may influence the general groundwater flow direction across the Site.

3.4.4 Water Quality Classifications

Groundwater Classification

The quality of groundwater beneath the subject site is classified by the DEEP as GB (DEEP, 2021). Such groundwater is presumed not to be suitable for human consumption without treatment and is used for industrial process water and cooling waters (DEEP, 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 Meadow Brook, which directly abuts the Site to the south.

The Connecticut River and Meadow Brook are classified by the State of Connecticut as SB (DEEP, 2021). 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).

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, 2021). 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 the 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 in May 2021 and supplemental NDDB information submitted in November 2021.
- **Ecological Receptors –** An ecological risk assessment has not been conducted; however the Site is located in an urban area of Hartford. The Site is bound by a mix of residential, commercial, and former agricultural land to the north, agricultural land use and the Metro north Railroad to the west, the Connecticut River to the east, and the Hartford Landfill to the south.
- **Wetlands –** Mapping (CTECO, 2021; EDR, 2017) indicates that state wetlands, distinguished by alluvial/floodplain soils, are located along eastern portions of the Site. National Wetland Inventory wetlands and wetland soils are also located on the central and southeast portion of the Site. Additionally, EDR mapping indicates that the Site is located entirely within the 100-year flood zone. Wetland delineation has been performed by Fuss & O'Neill as a step in the process of redevelopment site design.
- **Surface Waters –** The nearest surface water bodies to the Site include the Connecticut River, which directly abuts the Site to the east and Meadow Brook, which directly abuts the Site to the south.
- **Aquifer Protection Areas –** Aquifer protection areas were not identified within a 0.5-mile radius of the Site (CTECO, 2021).
- **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 –** A private water supply well was reportedly installed on the 51 Meadow Road property, located northwest (upgradient) of the Site in August 2019. Formerly the 51 Meadow Road property had been connected to the water supply on the Site's 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 at the Site, VOCs were not detected in Site groundwater.

4 Previous Investigations

The Phase II/III investigation activities were conducted based on the findings of Fuss & O'Neill's January 2018/February 2019 *Phase I Environmental Site Assessment*. The Phase I ESA identified the following eight areas of concern (AOCs) associated with the Site (*Figure 2*). It is noted that the names of the AOCs referred to herein may differ slightly from those identified within the *Phase I ESA Report*, however the areas themselves remain the same.

AOC-01 – Riverbank Berm (600 Leibert Road)
The DEEP issued a series of permits to the Russo family permitting them to fill the riverbank on the eastern portion of the Site for erosion protection purposes. The approvals allowed for armoring of the shoreline with rock and masonry material. Subsequently, an approximately 1,100-foot long berm was created (from unknown fill material) along the Connecticut River for erosion control purposes.

AOC-02 - Fill Material on Western Portion of the Site (228 & 610 Leibert Road)
Aerial photographs and historical topographic maps indicate that a sequence of filling on the western portion of the Site was ongoing from the 1800's through the 2000's beginning with the construction of the Metro North Railroad. From the 1950's onward, agricultural activities on the western portion of the Site were discontinued and the area was used for material processing and excavation of earth materials, including importing material from off-Site to fill excavation areas. Aerial photographs provide evidence that grades on these parcels have been raised.

AOC-03 - Material Stockpiles (228 Leibert Road)
Several material stockpiles were observed, predominantly located on the 228 Leibert Road parcel, containing soil mixed with concrete and asphalt fragments, shingles, brick fragments, and wood chips. Prior to acquisition of the property by Riverfront Recapture in September 2019, the previous owner removed several of the debris piles. Since acquisition of the property, several of the remaining piles were either removed or reused on Site (following characterization sampling). A summary of the current and historical stockpiles, including the contents and status (as of the 2021 Supplemental Phase III), is provided in the below table:

Stockpile ID	Contents	Status (as of 2021 Supplemental Phase III)
A	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	Present - southwest portion of Site
B	Fill (asphalt, gravel)	Present - southwest portion of Site
C	Peastone / Gravel	Present - southwest portion of Site
D	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	Present - southwest portion of Site

Stockpile ID	Contents	Status (as of 2021 Supplemental Phase III)
E	Aged Native material (overgrown with grass, brush & vegetation)	Present - southwest portion of Site
F	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	No Longer Present
G	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	No Longer Present
H	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	No Longer Present
I	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	Present – northwest portion of Site
J	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	No Longer Present
K	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	Present – northwest portion of Site
L	Native Material, Trace organics (f-m sand & trace organics, roots)	No Longer Present
M	Aged Native material (overgrown with grass, brush & vegetation)	No Longer Present
N	Aged Native material (overgrown with grass, brush & vegetation)	No Longer Present
O	Aged Native Material (overgrown with grass, brush & vegetation) with Trace Fill (debris, refuse)	No Longer Present
P	Native Material (f-m sand)	No Longer Present
Q	Native Material (f-m sand)	No Longer Present
R	Aged Native material (overgrown with grass, brush & vegetation)	No Longer Present
S	Native Material (f-m sand)	No Longer Present
T	Native Material (sand, silt)	No Longer Present
U	Native Material (f-m sand)	No Longer Present
V	Asphalt Millings	Present – northwest portion of Site
W	Aged Native Material (overgrown with grass, brush & vegetation) with trace fill (asphalt, refuse)	Present – northwest portion of the Site

Based on observations made during the 2021 Supplemental Phase III, the only stockpiles that remain on the Site as part of AOC-03 are Stockpiles A, B, C, D, E, I, K, V and W (*Figure 4*).

AOC-04 - Historical Fill Material (600 Leibert Road)

Since quarrying/excavation activities began at the Site in the early 1970's, multiple excavation and fill events have occurred across the southern portion of the property. The potential exists that impacted fill material is present in this area.

AOC-05 - Pesticide Use (Site Wide)

Given that the Site has been used for agricultural purposes dating prior to 1934, it is likely that varying concentrations of residual pesticides exists in shallow soils across the Site, primarily within the former agricultural fields.

AOC-06 - Drums & Miscellaneous Containers/Surficial Oil Staining (228 Leibert Road)

The findings of the Phase I ESA identified two- 55-gallon drums within the covered storage structure on the 228 Leibert Road parcel. The drums were full of unknown contents and visible pitting and corrosion were observed. In addition, a 5-gallon bucket of unknown contents was observed along the northeast corner of the vacant residential dwelling on the 228 Leibert Road parcel, and a surficial oily stain (measuring approximately 4 x 6 feet in area) was observed on the ground surface beneath this container. By February 2019, the drums and miscellaneous containers had been removed from the Site (by the previous owner).

Additionally, following the removal of the earth material processing equipment formerly staged in this area adjacent to the covered storage structure, evidence of oil staining to the ground surface was observed in 2019.

AOC-07 – Former Produce/Wash Building & Truck Storage (100 Meadow Road)

During the Phase I ESA, two vehicles were observed in the former produce washing and refrigerated storage structure on the 100 Meadow Road parcel. An oil stain was visible on the floor in the area of the trucks and a floor drain was observed in the near vicinity. The floor in this structure was observed to be in poor condition with large cracks and holes throughout. This structure was demolished in August 2020.

AOC-08 – Historical Underground Storage Tanks (100 & 120 Meadow Road)

Based on information obtained regarding historical Site structures, there was potential for previously unidentified fuel oil USTs to be present on the 100 & 120 Meadow Road parcels. The potential exists for historical releases of petroleum products to have occurred during transfer or storage, or from leaks in piping. Several ground-penetrating radar (GPR) surveys were completed at the Site as part of the Phase II/III investigations between 2018 and 2021 in an effort to locate potential anomalies indicative of USTs, however no USTs were identified. It is noted that during demolition of the former produce washing and refrigerated storage building in August 2020, an approximately 1,000-gallon fuel oil UST was identified beneath the floor slab. The removal of this UST is discussed further in *Section 6.2.8*. The potential that additional abandoned USTs may be present on the 100 & 120 Meadow Road parcels still exists.

Other Considerations

Although not identified as a Site-specific AOC, the Hartford Landfill, which is located south of the Site, is monitored for groundwater quality on a regular frequency as part of the facility operations and maintenance. There are two well clusters located on the southeastern Site property boundary (MW-341M/B & MW-342M/B), reportedly upgradient and outside of the landfill groundwater plume containment dike. Additional information pertaining to groundwater associated with these wells, and their potential impact to the Site, is provided in *Section 5.3*.

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 April 2018 and September 2021. The environmental investigations were conducted to determine if releases of petroleum or other potentially hazardous substances had occurred at the 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 (DQOs) 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 previously completed Phase I

ESAs. 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)
	SW 6010 and SW-7471 following synthetic precipitate leaching procedure (SPLP)
Pesticides	EPA Method 8081
Chlorinated herbicides	EPA Method 8151

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 above 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) survey
- Test pit excavation and soil sampling
- Direct-push soil sampling
- Surficial/hand soil sampling
- Material stockpile sampling
- Concrete chip sampling
- Monitoring well installation and development
- Groundwater sampling
- Sediment sampling
- Tank closure sampling

Sample locations are depicted on *Figures 2, 2A and 2B*. *Figures 2A* and 2*B* depict the conceptual walking path and overlook areas that will be constructed as part of site development activities. 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 Survey

Prior to the initiation of subsurface investigation activities, Fuss & O'Neill oversaw CorBuilt, LLC (CorBuilt), of Waterford, Connecticut, complete GPR surveys of select areas at the Site, including the area of the known MDC sewer line and the areas surrounding the proposed sampling locations.

The GPR surveys were conducted to identify potential subsurface piping and utilities, unknown USTs, private septic leach field locations, or other anomalies, which could indicate existing subsurface features and to clear the proposed sampling locations of subsurface utilities.

The GPR survey conducted as part of the 2018 Phase II ESA also included an approximate 10-foot offset around the former produce wash cinder block building, the former residential structure, and the former covered storage structure to evaluate the possible presence of USTs that may have historically been used to heat these structures.

5.3.2 Test Pit Excavation and Sampling

In April and October 2018, Fuss & O'Neill oversaw Cisco, LLC (Cisco), of New Haven, Connecticut, excavate a total of eighteen (18) test pits at select locations across the Site. The test pits were advanced to approximately 9-11 fbg using an excavator, until native material was reached, the saturated zone encountered, 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 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 REC, or from depth intervals that the Phase II activities previously determined to be impacted.

Field observations were recorded on the test pit logs included in *Appendix B* and test pit locations are depicted on *Figure 2*.

5.3.3 Direct-Push Soil Sampling

Between April 2018 and September 2021 Fuss & O'Neill oversaw Cisco and/or HazProbe, Inc. of Hampden, MA as they advanced soil borings at select locations across the Site using a direct-push Geoprobe® rig as detailed in *Section 6.2*.

Soil samples were collected continuously from the ground surface using stainless steel samplers, and each soil core 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 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 preceding investigations.

Field observations were recorded on the boring logs included in *Appendix B* and soil boring locations are depicted on *Figures 2, 3A and 3B*.

5.3.4 Surficial Soil Sampling

During the Phase II/III investigation activities conducted between April 2018 and September 2021, Fuss & O'Neill collected surficial soil samples (0-6") from twenty-nine (29) sampling locations within the former agricultural field (AOC-05) using dedicated trowels. Deeper soil samples (0.75'-2') were also collected from 5 of these surficial sampling locations. These samples were collected to determine the level and extent of pesticide and/or herbicide impacts to the shallow soil from historical agricultural activities.

Three additional surficial soil samples (0-0.5') were collected in March 2021 from the Connecticut River bank along the eastern portion of the Site (AOC-01). These samples were collected to evaluate potential impacts from the fill identified in the berm along the river.

Recorded field observations are provided in *Appendix B* and sampling locations are depicted on *Figure 2*.

5.3.5 Material Stockpile Sampling

Between April 2018 and August 2020, Fuss & O'Neill collected 16 composite soil samples from material stockpiles observed onsite including Stockpiles A, F, and I (April 2018), Stockpiles B, K, L, N, O, P, R, S, T and V (October 2018) Stockpiles A, H/I and K (August 2020). These samples were collected to evaluate appropriate waste characterization and off-site disposal options for these stockpiles, some of which were observed to be comprised of fill materials including asphalt, gravel, metal slag, cobbles, brick, and concrete.

During the 2021 supplemental Phase III ESA, a stockpile sample was also collected from Stockpile W (which was observed to contain litter debris and small quantities of gravel and asphalt) to assist with determining appropriate re-use or disposal options.

Soil within the stockpiles were inspected by a field engineer for physical evidence of contamination, such as staining, fill material or odors, and soil samples were field screened for vapor-phase VOCs using a

PID. Unless otherwise specified, stockpile samples were collected by hand using dedicated gloves and plastic trowels.

It is noted that between the 2018 and 2021 Site assessment and investigation activities, several of the previously identified stockpiles were removed and/or reused as grading material in the upland area adjacent to the rail line. A summary of the stockpiles observed, including sampling results and their fate is provided in *Section 6.2.3* below.

Refer to *Figure 4* for the locations of stockpiles (current and former) that had been identified on Site. Field observations from sampling activities are provided on the Stockpile Sampling logs in *Appendix B*.

5.3.6 Concrete Chip Sampling

Prior to the building demolition, in October 2018, Fuss & O'Neill utilized a hammer drill to collect four concrete chip samples from the stained areas of the concrete floor within the former produce wash cinder block structure on the 100 Meadow Road parcel. The concrete chip samples were submitted for laboratory analysis of PCBs to determine if the floor was impacted by PCBs due to a historical release of oil and/or hazardous materials.

5.3.7 Monitoring Well Installation & Development

Between April and October 2018, Fuss & O'Neill oversaw Cisco to install six groundwater monitoring wells (MW-01 through MW-06) using their direct-push Geoprobe® drill rig. The monitoring wells were completed between 12 and 20 feet below grade and were constructed with standard 1-inch (MW-01 through MW-04) or 2-inch (MW-05 and MW-06) PVC riser and a 10-foot, pre-packed, PVC screened interval that intersected the water table at each location. Monitoring wells MW-01 through MW-03 were completed flush with existing surface grade, while monitoring wells MW-04 through MW-06 were completed with 2-3 foot stand-pipes.

Following installation, the monitoring wells were developed using surge-and-purge techniques to remove suspended sediments from the well and to increase the hydraulic connection between the wells and the aquifer, and measuring point elevations were obtained at each monitoring well in relation to a known benchmark relative to NAVD88 vertical datum and NAD83 horizontal datum.

Monitoring well construction and elevation details are summarized on *Table 2* and provided on the well completion logs in *Appendix B*

5.3.8 Groundwater Sampling

Fuss & O'Neill conducted three rounds of groundwater sampling at the Site in April 2018, October 2018, and August 2020. The April 2018 groundwater sampling event included the four monitoring wells installed up until that point (MW-01 through MW-04), the October 2018 event included five monitoring

wells (MW-01 and MW-03 through MW-06), and the August 2020 groundwater sampling event included the four accessible monitoring wells (MW-01, MW-04 through MW-06) at that time.

It is noted that monitoring well MW-02 was destroyed at some point between the April and October 2018 sampling events and monitoring well MW-03 was destroyed between 2018 and 2020.
Prior to groundwater sampling, 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 (*Table 2*). All three rounds of groundwater monitoring were conducted using low-flow sampling techniques.

5.3.9 Sediment Sampling

In July 2020, Fuss & O'Neill collected six sediment samples from the depression area located adjacent to the Connecticut River in the eastern portion of the Site (SED-01, SED-02 and SED-06) and from the Connecticut River (SED-03 through SED-05) at the conflux of the depression and river. The objective of the sediment sampling was to characterize the environmental quality of sediment existing in the on-Site depression/estuary for potential future redevelopment and reuse purposes. Grain size and gradation analyses were performed on sediment samples from the Connecticut River for hydraulic evaluation associated with future redevelopment plans. The sediment samples were collected by hand and in order of downstream to upstream, in accordance with Fuss & O'Neill's sediment sampling standard operating procedures. Sediment sample locations are depicted on *Figure 2*.

5.4 QA/QC Review and Data Usability

The results for QA/QC samples submitted by Fuss & O'Neill (trip blanks, equipment 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 for VOC analysis 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. 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 the Phase II and Phase 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. As such, any 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. The laboratory reported that "reasonable confidence" was achieved on all analyses conducted. A review of the narratives identified minor QA/QC issues regarding laboratory method controls/blanks 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/III investigations conducted between April 2018 and September 2021 are presented in the following subsections. The analytical data for soil, groundwater, concrete chip and sediment samples collected during these investigations as compared to the baseline RSR criteria are summarized in *Tables 3 - 12*, and copies of the laboratory analytical reports are provided in *Appendix C*.

6.1 GPR Survey Results

The April 2018 GPR survey, conducted by Corbuilt, LLC included a 10-foot offset around the former cinder block produce wash building, the residential structure, the former covered storage structure, the area of the MDC sewer line, and the proposed sampling locations. An anomaly suspected to be a private septic leach field was identified south of the residential structure, and a subsurface anomaly in the vicinity of MW-04, located on the eastern limits of the agricultural field was also identified. The anomaly around MW-04 was investigated by a test pit (TP-00), however, no evidence of debris, rock or other features were found. The anomaly around the residential structure was also investigated with a test pit, however no evidence of negative environmental impact was identified. Therefore, these anomalies were determined to be environmentally insignificant, and potentially associated with interference from the underlying native deposits.

No evidence of USTs were identified around the exterior of the Site buildings existing at the time of the GPR surveys (REC-08). It is noted that at the time of the GPR survey, the interior of the former cinder block produce wash building was not accessible due to the presence of significant debris and generally poor and unsafe building conditions. As detailed in *Section 4*, an abandoned UST was later discovered during building demolition activities in August 2020, and the tank was subsequently removed.

Subsequent GPR surveys conducted by Corbuilt, LLC covered areas similar to the previous GPR survey and included the locations of the additional proposed test pits, soil borings, and monitoring wells. No additional suspect anomalies were identified during subsequent GPR survey events.

6.2 Soil Investigation Results

Soil investigation activities conducted between April 5, 2018 and September 14, 2021 as part of the Phase II/III investigations included the excavation and sampling of test pits, stockpile sampling, surficial/hand soil sampling in the former agricultural fields, and the advancement of soil borings in select locations across the Site.

Following soil characterization and sampling methods completed during the Phase II/Phase III ESAs, over 100 soil samples were collected and 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 3 through 9*.

6.2.1 AOC-01 – Riverbank Berm

Background

The DEEP previously issued a series of permits to the Russo family permitting them to fill the riverbank on the eastern portion of the Site to construct a berm for erosion protection purposes. The approximately 1,000-foot long berm extending north-south adjacent to the Connecticut River and the triangular peninsula located on the southeastern-most corner of the Site were identified as an AOC because the environmental quality of the material used to construct the berm was not known.

During the Phase II/III investigation activities, three test pits (TP-02, TP-03, and TP-09) were excavated and four soil borings (SB-30 to SB-33) were advanced along the eastern portion of the riverbank berm. Seven soil borings (SB-34 to SB-37) were advanced on the southeastern peninsula to confirm the quality of the fill material along the southern end of the riverbank was consistent with the northern portion.

Four test pits (TP-01, and TP-10 to TP-12) were also excavated to the west of the berm to evaluate the material located in the vicinity of estuary depression.

Additionally, three surficial soil samples were collected from the bank of the Connecticut River to evaluate potential impacts from the fill-related COCs detected in the berm.

Urban Fill

Soil borings advanced across the berm included SB-30 through SB-33 (on the northern to southeastern portion of the eastern berm), and soil borings SB-34 through SB-37 on the southeastern-most triangular peninsula. Each boring was advanced to 10 fbg and fill material consisting of asphalt, brick, and gravel were observed in all eight borings to depths ranging from less than one fbg to greater than 10 fbg, as indicated on the boring logs included in *Appendix B*. Field screening using the PID detected minimal evidence of VOCs during sampling.

Test Pits TP-02 and TP-03 were excavated on the southern and northern ends of the berm, respectively, to a depth of 8.5 fbg, while TP-09 (located approximately 50 feet west of TP-02 in the southern portion

of the berm) was excavated to a depth of 11 fbg. Fill materials, including asphalt, brick, coal, concrete, gravel, metal slag, and/or wood, were observed to the bottom of each of the three test pits, as indicated in the test pit logs included in *Appendix B*. Based on observations of the eastern edge of the slope along the riverfront, the estimated fill thickness of the berm could be up to approximately 15 fbg.

Analytical Results

Soil samples were collected from each test pit from approximately 5-7 fbg, and from intervals within the soil borings in which evidence of fill material was observed (typically at depths ranging from 0 to 2.5 fbg, with the exception of SB-33, which was sampled from 5 to 6.2 fbg). Soil samples were submitted for laboratory analysis of constituents of concern typically associated with fill material including metals, ETPH, PAHs, VOCs, and/or PCBs.

VOCs, PCBs, and pesticides were not detected above laboratory reporting limits in any of the soil samples collected from this AOC.

Laboratory analytical results from samples collected from test pits and soil borings advanced within this AOC identified concentrations of various total metals and metals following extraction by SPLP at concentrations below applicable RSR criteria (*Table 3*). Identified concentrations of metals were consistent with concentration ranges generally associated with urban fill material.

ETPH was detected at TP-09 (5-7') at a concentration slightly exceeding the Res DEC, however field observations made during the excavation of this test pit identified the presence of asphalt in the subsurface materials. ETPH was also detected in the sample collected from soil boring SB-30 at a concentration well below baseline RSR criteria, and in sample SB-38 (2-4') at a concentration that exceeded the Res DEC. To further define the petroleum source at this location, the sample was also analyzed for petroleum hydrocarbons via the EPH method, which confirmed the presence of C11-C22 aromatic hydrocarbons, at concentrations indicative of fill material.

Low concentrations of pesticides (including 4,4'-DDE or 4,4'-DDT) were detected below baseline concentrations in samples from borings SB-30, SB-31, and SB-36, and are likely attributed to widespread site use associated with former agricultural activities.

Laboratory analytical results from samples from TP-02 and TP-09 identified concentrations of several PAHs below applicable RSR criteria. Select PAHs, consistent with those typically identified in urban fill, were also reported at varying concentrations within samples from each boring in the AOC, with the exception of soil boring SB-35, which had less than one foot of fill material was observed.

The concentrations of PAHs identified at borings SB-32 through SB-34 and SB-37 were below baseline RSR criteria, while PAHs at SB-30 and SB-36 exceeded the Res DEC and/or GB PMC, at concentrations an order of magnitude higher than those reported in other borings in the area. Therefore, in June 2021, an additional four shallow borings were advanced utilizing hand sampling tools in each direction around SB-30 (SB-30B through SB-30E), approximately 5 feet from the original boring location. Concurrently, another eight shallow borings (SB-36B through SB-36I) were advanced via hand tools around the original SB-36 location. One shallow sample (1-2') was collected from each location.

The June 2021 analytical data identified "Surface Soil Contamination Poses Potential Direct Exposure Risk" hazard conditions, as described under CGS 22a-6u(d). Specifically, concentrations of select PAHs were reported at concentrations greater than 15 times the residential direct exposure criteria at the following 8 boring locations:

- SB-30C
- SB-30D
- SB-36B
- SB-36C
- SB-36D
- SB-36E
- SB-36F
- SB-36G

The significant environmental hazard conditions were reported to DEEP as required by state statute on September 2, 2021.

To further delineate the extent of elevated PAH concentrations, Fuss & O'Neill retained HazProbe, LLC, on September 14, 2021 and oversaw the advancement of 8 shallow borings around the SB-30 area, and 15 shallow borings around the SB-36 area, including some at previously advanced locations to facilitate collection of deeper samples. The additional borings extended to a depth of approximately 6 feet below grade and three soil samples were collected from each location from depth intervals including 0-2', 2-4' and 4-6'. The sampling locations are depicted on *Figures 3A and 3B*.

SB-30 Area (Northern end of the Riverbank Berm)

In total, 18 samples (from varying depth intervals) were collected from the SB-30 area and analyzed for PAHs to confirm the extent and depth of elevated PAH impacts. Analytical results from the samples collected from this area are summarized on *Table 3a*.

In general, an area measuring approximately 50 by 50 feet was identified to be impacted with PAHs at concentrations exceeded applicable RSR criteria. The area of impact likely expands the width of the berm in this area. The elevated impacts were identified to a portion of this area to depths between approximately 4 to 6 feet below grade. The source of PAHs has been determined to be impacted urban fill material containing asphalt fragments.

It is noted that this area is likely comingled with an area of impacted fill material (containing PAHs and pesticides) along the southern end of the riverbank berm on the adjacent Windsor Meadows State Park parcel to the north. These areas will likely be addressed concurrently with a combined remedial approach, which will be detailed in forthcoming Remedial Action Plans.

SB-36 Area (Southern end of the Riverbank Berm)

In total, 32 samples (from varying depth intervals) were collected from the SB-36 area and analyzed for PAHs to confirm the extent and depth of elevated PAH impacts. Analytical results from the samples collected from this area are summarized on *Table 3b*.

Based on a review of analytical results from samples collected within the SB-36 area, along the southern entrance to the on-Site cove, an area measuring a minimum of approximately 75 by 80 feet was identified to be impacted with PAHs at concentrations exceeding applicable RSR criteria to depths ranging from approximately 3 to 6 feet below grade.

Additionally, a boring advance to the northeast of the SB-36 area was identified with concentrations of PAHs exceeding applicable RSR criteria to approximately 6 feet below grade.

Estuary Test Pits
Samples collected from the four test pits (TP-01 and TP-10 to TP-12) that were advanced west of the berm within the depression estuary in areas observed to be comprised of native unconsolidated material were also analyzed for one or more of constituents of concern for the riverbank AOC. Several total metals (arsenic, barium, chromium, and lead) were detected above the laboratory reporting limits but below baseline RSR criteria in these four test pits. No concentrations of ETPH, PAHs, VOCs, or pesticides were detected in any of these four test pits.

Surficial Riverbank Samples
Three surficial soil samples (SS-34 to SS-36) collected from 0 to 0.5 fbg along the western bank of the Connecticut River, adjacent to the berm, were analyzed for PAHs to evaluate the potential impacts from the fill-related COCs detected in the berm. PAHs were detected well below baseline RSR criteria at only one of the three surficial soil locations (SS-34).

Revised Conceptual Site Model

Soil data collected from borings and test pits indicate fill is present to depths of greater than 11 fbg along the eastern portion of the Site. The fill material observed generally consists of fine- to coarse-grained sand with varying proportions of asphalt, brick, coal, concrete, gravel, metal slag, and wood. Results of soil sampling generally indicate the presence of metals and ETPH below baseline RSR criteria throughout the AOC, with the exception of the soil sample collected from TP-09 which exceeded the baseline Res DEC for ETPH, and the soil samples from borings within the SB-30 and SB-36 areas which exceeded the Res DEC and/or GB PMC for several PAHs.

Due to the heterogeneity of the unconsolidated deposits that comprise the berm, fill material from any location within the berm or along the western bank of the Connecticut River have the potential to yield detections of metals (particularly lead) above the laboratory reporting limit but below baseline RSR criteria, and may also yield detections of ETPH and/or PAHs in excess of the baseline RSR criteria. Soil management and handling activities or engineered controls will be required in the SB-30 and SB-36 areas to facilitate implementation of future development plans for these areas.

6.2.2 AOC-02 – Fill Material on Western Portion of Site

Background

Aerial photographs and historical topographic maps indicate that a sequence of filling on the western portion of the Site was ongoing from the 1800's through the 2000's beginning with the construction of the Metro North Railroad. From the 1950's onward, agricultural activities on the western portion of the Site were discontinued and the area was used for material processing and excavation of earth materials. This included importing material from off-Site to fill excavation areas. Aerial photographs provide evidence that elevation grades on these parcels have been raised over time. The fill material along the western portion of the Site was identified as a REC in the Phase I ESA because the environmental quality of the fill material used was not known.

Between the Phase II and III investigation activities, eleven test pits (TP-04 through TP-08 and TP-13 through TP-18) were excavated, four soil borings (SB-14, SB-15, SB-15R, and SB-16) and three monitoring wells (MW-02, MW-03, and MW-05) were installed across the western portion of the Site. The purpose of these sampling points was to determine and characterize the extent and quality of fill.

Urban Fill

Fill material consisting of asphalt, brick, metal slag, concrete, gravel and/or wood was identified in nine of the eleven test pits excavated on the western portion of the Site as well as in the four soil borings (SB-14, SB-15, SB-15R, and SB-16) and two of the three monitoring well locations (MW-02 and MW-03). Fill thickness ranged from approximately 1 foot to greater than 10 feet in these areas. Test pits TP-17 and TP-18 and monitoring well MW-05, located in the vicinity of the former covered structure, did not have fill material observed.

Analytical Results

Of the 21 soil samples collected from the 18 sampling locations associated with this AOC, 18 soil samples were collected and analyzed for fill-related constituents (PAHs and/or total metals). Although fill material was observed, the soil samples collected from soil borings SB-14, SB-15 and SB-15R were collected from shallow depth intervals and analyzed for pesticides to evaluate the extent of the observed staining associated with a potential release of pesticides (*Figure 2*). These soil borings were generally located amidst several piles of demolition debris in the area of the former barracks and greenhouses where test pits TP-07, TP-15, and TP-16 were installed.

The below table summarizes the concentration ranges of detected total metals and PAHs associated with the fill samples:

Compound	Number of Samples	Number of Detections	Concentration Range
Metals (Total), mg/kg			
Arsenic	18	17	1.75-**120**
Barium	14	14	9.46-288

Compound	Number of Samples	Number of Detections	Concentration Range
Cadmium	14	6	0.43-2.77
Chromium	14	14	5.61-28.8
Lead	18	18	2.39-**1,430**
Mercury	14	8	0.05-0.57
PAHs, ug/kg			
2-Methylnaphhthalene	14	1	1,000
Acenaphthene	14	2	230-860
Acenaphthalene	14	3	490-1,300
Anthracene	14	3	630-1,800
Benzo(a)anthracene	14	6	280-**4,400**
Benzo(a)pyrene	14	6	320-**5,700**
Benzo(b)fluoranthene	14	6	290-**4,300**
Benzo(ghi)perylene	14	5	310-**4,400**
Benzo(k)fluoranthene	14	6	270-**4,700**
Chrysene	14	6	300-**5,000**
Dibenz(a,h)anthracene	14	3	320-980
Fluoranthene	14	8	290-8,700
Fluorene	14	3	240-2,300
Indeno(1,2,3-cd)pyrene	14	5	310-**5,700**
Naphthalene	14	3	290-1,100
Phenanthrene	14	5	210-10,000
Pyrene	14	8	300-8,500

PAHs were detected in soil samples collected from test pits TP-04, TP-05, TP-06, TP-07, and TP-15, monitoring well MW-03, and soil boring SB-16. Concentrations of PAHs reported in the samples from test pits TP-06 (located on the western portion of the Site), and TP-15 (located in the northwest portion of the former truck storage area) and monitoring well MW-03 (located near the railroad line on the southwestern portion of the Site exceeded the Res DEC and GB PMC. The concentration exceedances reported at these locations are generally typical of urban fill material containing asphalt and/or coal ash. PAHs were detected below applicable RSR criteria in all other locations sampled.

Concentrations of metals (arsenic, barium, cadmium, chromium, lead, and/or mercury) were detected above the laboratory reporting limits but below applicable RSR criteria, which is generally typical in samples associated with urban fill material containing asphalt and/or coal ash. Arsenic and lead concentrations exceeded the Res DEC in two samples, TP-07 (0-1) and TP-15 (3-5), and lead exceeded the Res DEC in the sample TP-16 (3.5-4.5). As described above, these test pits are located amongst several fill piles consisting of demolition debris associated with former barracks and greenhouses.

Additional constituents of concern for the 21 soil samples analyzed from this AOC include ETPH, VOCs, PCBs, chlorinated herbicides and/or pesticides. No PCBs or herbicides were detected in any of the soil samples collected from the fill material.

ETPH was analyzed at 9 of the sampling locations associated with this AOC and was detected below applicable RSR criteria in TP-04 (8-9), located on the southwestern portion of the Site, and in TP-07 (0-1), located amongst demolition debris near the former barracks and greenhouses (*Figure 2*). In the soil sample TP-06 (3-4.5), collected from the western portion of the Site, ETPH was detected at a concentration slightly exceeding the Res DEC. During the excavation of the test pit TP-06, brick walls were encountered to a depth of approximately 4.5 fbg, at which point the excavator met refusal on a suspected concrete slab. Field screening and visual observation of the material from TP-06 identified asphalt present in the subsurface material.

VOCs were analyzed at 7 sampling locations, with only two soil sample locations (TP-06 [3-4.5] and TP-15 [3-5]) containing detections of the VOC naphthalene below baseline RSR criteria.

Pesticides were detected in 6 of the 20 soil samples analyzed to evaluate this AOC, including TP-04 (8-9), TP-06 (3-4.5), TP-15 (0.25-1), and MW-03 (0-0.8), which had concentrations reported below applicable RSR criteria. Concentrations of several pesticides were detected above the GB PMC in the sample TP-07 (0-1) and the deeper sample TP-16 (3.5-4.5'), both of which are located in the vicinity of the former barracks and greenhouses *(Figure 2)*. Pesticides were not detected in the shallow sample collected from TP-16 (0.25-1'). Pesticides in this area are likely associated with historical agricultural activities in this area (pre-1980s) or could be associated with the transport of soil from the other areas of the Site.

To further characterize the elevated pesticide concentrations in the vicinity of the former barracks and greenhouses, soil borings SB-14, SB-15, and SB-15R were advanced near test pits TP-07 and TP-16 during the 2020 Phase III investigation. Pesticides, including DDE, DDT, aldrin, chlordane, dieldrin, heptachlor, and/or heptachlor epoxide, were detected above the GB PMC at SB-15 and SB-15R. Pesticides were not detected in the sample collected from SB-14.

Soil analytical results from samples collected within AOC-02 compared to applicable RSR criteria are summarized on *Table 4*.

Revised Conceptual Site Model

Based on the results of the Phase II/III investigations, the fill encountered on the western portion of the Site had the following characteristics:

- **Composition:** Fill identified in test pits and soil borings was generally comprised of fine to coarse grain sand with varying proportions of asphalt, brick, coal, concrete, glass fragments, gravel, metal fragments, metal slag, plastic fragments, and/or wood.

- **Thickness:** Fill thickness ranged from approximately 1 fbg between the former cinder block produce wash structure and the former residence to approximately 11.5 fbg north of the former residence and in the vicinity of the former cinder block structure.

- **Impacts:** Varying concentrations of metals, PAHs, pesticides, and ETPH were detected in soil containing fill. Arsenic, lead, and several PAHs were detected above applicable RSR criteria, but due to fill heterogeneity, it is possible for metals, PAHs, or ETPH concentrations to exceed RSR criteria at any sample location.

It is noted that the elevated concentrations of metals and pesticides in the area of the former barracks and greenhouses (TP-07, TP-15, TP-16, SB-15, and SB-15R) differ slightly from the pesticide concentrations and constituents reported from samples collected across the agricultural field and could be associated with a different generation of pesticide application. Soil management and handling activities may be necessary across the western portion of the Site and in the area of the former barracks and greenhouses if future development activities result in disturbance of fill at this AOC or if public access at this AOC is anticipated.

6.2.3 AOC-03 – Material Stockpiles

Background

During the 2018 investigations, twenty-three distinct material stockpiles were observed on the western portion of the Site, predominantly located on the 228 Leibert Road parcel. These stockpiles were labeled as Stockpiles A through W as depicted on *Figure 4*. At the time of the 2021 supplemental Phase III investigation, however, several of the previously observed stockpiles had been removed by the previous Site owner, including stockpiles F, G, H, J, L, M, N, O, P Q, R, S, T, and U.

While the majority of the stockpiled material appeared to have been generated from previous Site sand quarrying/excavation activities, others appeared to be an accumulation of non-native construction debris. Additionally, several of the remaining material stockpiles, contained soil mixed with concrete and asphalt fragments, shingles, brick fragments, and wood chips. Some of the piles were well vegetated with established shrub and small tree growth, indicating that they had been stockpiled for a magnitude of a few years or more. As of March 2021, eight of the remaining stockpiles (A, B, C, D, H/I, K, V, and Stockpile W) were observed to contain suspected fill materials, including asphalt, gravel, metal slag, cobbles, brick, and concrete.

Analytical Results

During the initial Phase II/III investigation, surficial samples (SS-01 and SS-03) were collected by hand from two stockpiles (Stockpile A and I) and 12 composite samples were collected from several stockpiles across the western portion of the Site using an excavator. During the March 2021 supplemental Phase III investigation, one additional composite soil sample was collected from Stockpile W. Stockpile samples were submitted for laboratory analysis of RCRA 8 Metals, ETPH, PCBs, VOCs, PAHs, pesticides, and/or herbicides.

Sampling results from three of the material stockpiles (A, I, and W) observed to contain fill materials identified concentrations of arsenic, lead, PAHs, and/or pesticides above the applicable RSR criteria. The remaining stockpiles were observed to generally contain fine- to medium-grained sand, likely native

material excavated from the Site, and had concentrations of constituents of concern reported below applicable RSR criteria, with the exception of samples from stockpiles F, R, and S which contained concentrations of pesticides (4,4'-DDE and 4,4'-DDT) above the GB PMC. Samples from several other stockpiles observed to contain native, sandy material contained low level concentrations of pesticides below the applicable RSR criteria.

A general summary the stockpiles remaining on Site as of March 2021, their contents, sampling results compared to RSR criteria, and their current status is provided in the table below. A summary of analytical results from stockpile samples collected from stockpiles currently remaining on Site is provided on *Table 5*.

Stockpile ID	Contents	Sampling Results	Status (as of March 2021 Phase III)
A	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	Arsenic > DEC Other Metals < RSRs PAHs < RSRs	Present - southwest portion of Site
B*	Fill (asphalt, gravel)	PCBs - ND	Present - southwest portion of Site
C	Peastone / Gravel	No Sample	Present - southwest portion of Site
D	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	No Sample	Present - southwest portion of Site
E	Aged Native material (overgrown with grass, brush & vegetation)	No Sample	Present - southwest portion of Site
H/I	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	Lead > DEC PAHs > DEC & PMC Pesticides > DEC & PMC Other Metals < RSRs	Present – northwest portion of Site
K	Fill (asphalt, gravel, metal slag, cobbles, brick, and concrete)	Metals < RSRs PAHs < RSRs	Present – northwest portion of Site
V*	Asphalt Millings	PCBs - ND	Present – northwest portion of Site
W	Aged Native Material (overgrown with grass, brush & vegetation) with trace fill (asphalt, refuse)	PAHs>DEC & PMC Pesticides > DEC & PMC	Present – northwest portion of the Site

Notes:

* *Due to the nature of fill present, Stockpiles B and V were only sampled for PCBs.*

Based on the observations made and the results of the stockpile sampling performed during the Phase II and Phase III investigation activities, soil associated with any of the stockpiles with observed fill materials may yield detections of metals, PAHs, and/or pesticides above the laboratory reporting limit, and have the potential to exceed applicable RSR criteria. Furthermore, stockpiles comprised of native

soil may contain pesticides at concentrations above the GB PMC due to the widespread site use associated with former agricultural activities.

Revised Conceptual Site Model

Based on observations of the piles and sampling results from previous investigations, it has been determined that the stockpiles containing fill materials, including Stockpiles A, D, H/I, and K will need to be removed from the Site and disposed of appropriately. During the 2020 Phase III, two waste characterization samples were collected from three of these stockpiles (A, H/I and K), comprised of fill materials (including asphalt, gravel, metal slag, etc.), and during the 2021 supplemental Phase III activities one sample was collected from Stockpile W to assist with determining appropriate disposal options.

Additional soil management activities may be required to determine the best on-site reuse of the stockpiles containing native material and the stockpiles containing peastone, gravel, and asphalt (Stockpiles B, C, and W). Several of the stockpiles consisting of native materials have already been used to grade select portions of the Site in preparation for Site development activities. It may be possible to reuse Stockpiles B, C, and W as sub-base for paved driving or parking areas on portions of the Site where urban fill has been identified.

6.2.4 AOC-04 – Historical Fill Material

Background

Since quarrying/excavation activities began at the Site in the early 1970's, multiple excavation and fill events have occurred across the eastern and western portions of the property. At the time of the Phase I ESA, the presence of fill and environmental quality of the soil in the central portion of the Site (the former agricultural field) was not determined.

Results

As part of the Phase II/III investigations, one test pit (TP-00) was excavated and two soil borings were advanced along the easternmost edge of the former agricultural field and completed as monitoring wells (MW-04 and MW-06). Test pit TP-00 was excavated near the eastern portion of the former agricultural field (*Figure 2*) to address an anomaly identified during the GPR survey (*Section 6.1*). No evidence of subsurface structures, debris, or fill material was identified in the test pit; therefore, no soil sample was collected. No fill material was identified in either MW-04 or MW-06.

Soil sample MW-04 (0-0.5') was submitted for laboratory analysis of RCRA 8 metals, PAHs, and pesticides, while soil sample MW-06 (0-1') was submitted for analysis of arsenic, lead, pesticide, and chlorinated herbicides. Analytical results indicated that several metals, including arsenic and lead, were detected at concentrations below the RSR criteria in both samples. PAHs were not detected above laboratory reporting limits in the sample from MW-04, and pesticides and herbicides were not detected above laboratory reporting limits in the sample from MW-06.

Several pesticides (including 4,4'-DDE, 4,4'-DDT, and chlordane) were reported in the soil sample collected from MW-04 at concentrations above the baseline GB PMC criteria. However, the concentrations reported appeared consistent with pesticide concentration ranges reported in samples collected from across the agricultural field and are likely associated with industry standard pesticide application for agricultural purposes (See *Section 6.2.5* below)

Additionally, pesticides were not detected in groundwater samples collected from MW-04 or MW-06 between 2018 and 2020, as detailed in *Section 6.3*.

Revised Conceptual Site Model

Based on soil analytical results and soil logs from borings and test pits at this AOC, no fill is present in the central portion of the Site. Metals concentrations in the central portion of the Site are below RSR criteria and are consistent with background metals concentrations, while concentrations of pesticides reported in the central portion of the Site are consistent with industry standard agricultural applications, as described in greater detail in *Section 6.2.5* below.

6.2.5 AOC-05 – Pesticide Use (Site Wide)

Background

The majority of the Site has been used for agricultural purposes dating back to prior to 1934. Given the historic cultivation activities, it was likely that pesticides were regularly applied to the agricultural fields, and thus likely that varying concentrations of residual pesticides are present in shallow soils across the Site.

Analytical Results

During the Phase II/III investigations, numerous soil samples were collected and analyzed for pesticides. Specifically, 35 shallow soil samples were collected by hand from a sampling grid consisting of approximately 29 sampling locations (SS-04 through SS-26, SS-30 through SS-33, SS-37 & SS-38) laid across the agricultural field. Shallow samples were collected from approximately 0-0.5 fbg and/or approximately 0.75-2 fbg at each grid sampling location, and soil samples collected from MW-04 and MW-06 were submitted for laboratory analysis of pesticides with select samples also analyzed for arsenic, lead and/or chlorinated herbicides.

Analytical results indicated that pesticides (including 4,4'-DDE, 4,4'-DDT, and chlordane) were detected at concentrations above the GB PMC in shallow soil collected from MW-04 (0-0.5'), located on the eastern extent of the former agricultural field, which appear consistent with normal pesticide application in the agricultural field. Pesticides were not detected in the sample collected from MW-06, located off the southeastern corner of the former agricultural fields. Metals reported at both these sample locations were below RSR criteria and consistent with background concentrations.

Pesticides, including 4,4'-DDE, 4,4' DDT, chlordane, dieldrin, and heptachlor epoxide were detected at varying concentrations in shallow hand samples collected throughout the former agricultural field as summarized on *Table 7*. Concentrations of DDE, DDT, chlordane and/or heptachlor epoxide were detected above the GB PMC at the majority of the shallow soil samples collected from across the agricultural field. Pesticides reported from samples across the field were below the Res DEC. Concentrations of pesticides were not detected above laboratory reporting limits in deeper samples SS-30 (1.5-2) and SS-32 (1.5-2).

Herbicides were not detected above laboratory reporting limits in any of the soil samples collected across the Site, and the detected arsenic and lead concentrations in the 21 samples analyzed from this portion of the Site were below baseline RSR criteria.

Revised Conceptual Site Model

Consistent with data collected from the adjacent Windsor Meadow State Park parcel to the north, pesticides, including DDE, DDT, chlordane, dieldrin, and heptachlor epoxide were detected at varying concentrations above the GB PMC, but below the Res DEC, at numerous sampling locations collected from the former agricultural field and across the Site.

The pesticides 4,4-DDE, 4,4-DDT, and chlordane were the predominant constituents detected, with fewer detects of 4,4-DDD and heptachlor epoxide. Each constituent detected were reported 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	2/35	10 – 13
4,4-DDE	33/35	13 – **210**
4,4-DDT	33/35	12 – **220**
Chlordane	7/35	43 – **69**
Hetachlor Epoxide	8/35	9.1 – 19

While concentrations of DDE and DDT in every sample and concentrations of chlordane from one sample 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 soley 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 shallow samples, collected from the surface to depths up to 2 fbg, analyzed from the former agricultural field were below the Res DEC, and groundwater analytical results from Site monitoring wells within and downgradient of this AOC indicated that pesticides were not detected in Site groundwater (*Section 6.3*). 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 the seasonal monitoring events, demonstration of compliance with the groundwater standards at this AOC would not be required.

6.2.6 AOC-06 – Drums & Miscellaneous Containers/Surficial Oil Staining

Background

During the 2018 Phase I ESA, two 55-gallon drums of unknown substances were observed in poor condition near the former covered storage structure and a 5-gallon bucket full of an unknown substance was observed off the northeast corner of the vacant residential structure surrounded by an approximately 4 foot by 6 foot area stained with oil. During subsequent investigations, the 55-gallon drums and 5-gallon containers had reportedly been removed by the previous Site occupant.

Additionally, several vehicles and earth material processing equipment were staged west of the former covered storage structure on the western portion of the Site. Similarly, during the 2018 Phase III investigation, the equipment had been removed from the Site by the previous occupant. Observations of the area in 2018 revealed evidence of incidental staining beneath the equipment.

Analytical Results

During the initial Phase II investigation, soil boring SB-04 was advanced in the vicinity of the drums within the covered storage structure and soil boring SB-03 was advanced in the stained area off the northeast corner of the former residential structure to evaluate the potential of a release in these areas. Black, oily staining was observed within the first approximately 5 inches of soil from SB-03, but no evidence of a release at depth was observed. Additionally, during the 2020 Phase III ESA, three soil borings (SB-11 through SB-13) were advanced in two approximately 60-square foot areas of stained soil in the vicinity of the former earth material processing equipment and vehicles. SB-13 was advanced east of SB-12, just outside of the staining.

Samples from soil borings advanced in this AOC were analyzed for VOCs, ETPH, PAHs, PCBs, pesticides, and/or metals (total and/or SPLP).

VOCs, ETPH, PAHs, PCBs, and pesticides were not detected above laboratory reporting limits in the sample collected from SB-03. Select metals (both total and SPLP) were reported in this sample at concentrations below the applicable baseline RSR criteria. Trace concentrations of PAHs and metals, below applicable RSR criteria were reported in SB-04 (0.1-0.9), while pesticides were not detected at this location (*Table 8)*. Based on the analytical results and field observations made during the advancement of SB-04, there was no evidence of a deeper subsurface release.

Several metals were detected at concentrations well below applicable RSR criteria in the samples collected from SB-11, SB-12 and SB-13. PAHS were detected at varying concentrations in the samples collected from these soil borings, with the concentrations in SB-11 and SB-12 exceeding the applicable GB PMC and/or Res DEC, as summarized in the table below:

Compound	Number of Samples	Number of Detections	Concentration Range (mg/kg)
Benzo(a)anthracene	3	3	360-**7,300**
Benzo(a)pyrene	3	3	380-**8,500**
Benzo(b)fluoranthene	3	3	350-**7,400**
Benzo(ghi)perylene	3	3	270-**5,200**
Benzo(k)fluoranthene	3	3	290-**6,500**
Chrysene	3	3	370-**7,400**
Dibenzo(a,h)anthracene	3	1	**1,200**
Fluoranthene	3	3	670-16,000
Indeno(1,2,3-cd)pyrene	3	3	260-**5,700**
Phenanthrene	3	2	410-6,100
Pyrene	3	3	610-15,000

While fill material was observed to depths of up to 8.8 fbg at all three boring locations, the concentrations of PAHs detected in shallow soil appear to be elevated above concentrations typical of site-wide fill, and likely associated with incidental petroleum releases.

Revised Conceptual Site Model

Based on visual observations and the results of soil sampling conducted in the vicinity of the former drums and containers, no evidence of a release was identified. Because the drums and containers were removed from the Site by the previous occupants prior to the 2018 and 2020 Phase III investigations, no additional soil sampling was warranted in this area based on visual observation of the area below the drums and containers.

Soil samples collected from soil borings advanced in the stained areas following removal of staged vehicles and equipment indicated elevated concentrations of PAHs in shallow soil, likely associated with incidental petroleum releases from the former equipment. Per RCSA 22a-133k-2(b)(5)(A) and 22a-133k-2(c)(5)(D)(i), soil at a release area polluted with petroleum hydrocarbons or semi-volatile organic substances is not required to be remediated to the direct exposure criteria or pollutant mobility criteria, provided such pollution is the result of an incidental release due to normal operation of motor vehicles, not including refueling, repair or maintenance.

A review of Site groundwater analytical results, however, indicated only trace concentrations of PAHs (below RSR criteria), indicating that the petroleum source of PAHs in this area has not impacted Site groundwater and is limited to the top foot of soil in the two approximately 60-square foot areas where surficial staining was observed.

6.2.7 AOC-07 – Former Produce Wash Building & Truck Storage

Background

Reportedly, the southern wing of the former produce wash building located on the northwest portion of the Site was historically used as a truck storage area. During the initial Phase I ESA, two vehicles were observed in this portion of the building, as well as several surficial oil stains, sections of pitted concrete, and a floor drain.

Analytical Results

During the Phase II/III investigations, seven soil borings (SB-01, SB-02, SB-05 through SB-08, and MW-01) were advanced within this area and four concrete chip samples (CS-01 through CS-04) were collected from the building floor slab at locations SB-05 through SB-08. Borings SB-02 and MW-01 were advanced outside the former cinder block produce wash structure, southeast and south of the building, respectively. The remaining soil and concrete samples were collected from inside the building. The interior soil samples at SB-05 through SB-08 were collected from just beneath the building floor slab to evaluate whether any potential release may have penetrated the floor. The collected soil samples were submitted for laboratory analysis of ETPH, PAHs, PCBs, and/or metals. The concrete chip samples were submitted for analysis of PCBs.

ETPH and PCBs were not detected in any of the sub-slab or exterior soil samples. PAHs were reported at low level concentrations, below RSR criteria, in one soil sample, collected from MW-01. Based on the presence of fill material to approximately 11 fbg at MW-01, the PAH concentrations are likely attributed to the fill, rather than a petroleum release. This is further supported by the data collected from nearby sub-slab soil samples, and the absence of any evidence of a release during PID field screening and visual observation of the soil quality at depth.

Several metals, including arsenic and lead, were detected in all seven soil samples at concentrations above the laboratory detection limits, but well below baseline RSR criteria. Metals concentrations appeared to be consistent with background metals concentrations. No concentrations of pesticides or VOCs were detected in the select samples submitted for analysis. A summary of soil analytical results from this AOC is provided as *Table 9*.

PCBs were reported at a concentration of 1800 ug/kg in the concrete chip sample CS-03, collected from location SB-07, which was advanced in the area where the truck had historically been stored (*Table 10*). PCBs were not detected above laboratory reporting limits in any of the other three concrete chip samples. This detection indicates a localized release of PCB-containing oil to the floor surface within

truck storage portion of the building. Taking into consideration the soil sampling results, the release did not penetrate the slab to the subsurface soil.

Revised Conceptual Site Model

Based on a review of boring logs and soil data collected from this AOC, fill is present at depths of approximately 1 fbg in the former building interior and up to 11 fbg near the building perimeter and around the exterior of the building footprint. The fill material observed generally consists of fine- to coarse- grained sand with varying proportions of asphalt, brick, gravel, and organic material. Results of soil sampling generally indicate the presence of metals (including arsenic and lead) and PAHs below baseline RSR criteria in fill material containing asphalt.

Concrete chip samples were collected from the floor slab in areas of visible staining. Concrete chip sampling yielded one detection of PCBs slightly above one part per million, in a stained area measuring approximately 25-square feet in the truck storage bay of the former cinder block produce wash building. PCBs were not reported in any of the other concrete chip samples collected from outside the stained area nor were PCBs detected in sub-slab soil samples collected from beneath the concrete floor slab. Therefore, it was concluded that the impacts were limited to the surface of the concrete floor in the stained area. Based on these findings, the stained portion of concrete was removed and disposed of off-Site separately during building demolition activities in 2020.

6.2.8 AOC-08 –Historical Underground Storage Tanks

Background

Based on information obtained regarding historical Site structures, there was potential for previously unidentified fuel oil USTs to be present on the 100 & 120 Meadow Road parcels. No evidence of abandoned former USTs was identified during several GPR surveys completed in this portion of the Site; however, during the demolition of the former produce wash and refrigerated storage building in August 2020, an abandoned 1,000-gallon fuel oil UST was identified beneath the floor slab.

Results

At the time of the UST discovery, the tank was inspected and no evidence of leaking or damage to the tank was observed. The tank contained approximately 300 gallons of water and residual No. 2 heating oil, which was removed by Tank Works CT, (Manchester, Connecticut) on October 1, 2020. Following tank removal, Fuss & O'Neill conducted confirmatory tank grave soil sampling and identified no evidence of a release to the subsurface. Additional details of the tank removal including results of the confirmatory soil sampling are provided in the *UST Removal and Closure Sampling* letter, dated October 30, 2020, included as *Appendix A*.

Revised Conceptual Site Model

Based on results of tank grave confirmatory soil sampling and observation of tank grave soil during the UST removal, no evidence of a release was identified. The UST has been appropriately removed, cleaned, and disposed of off-site and appeared to be in fair condition upon removal. However, given the history of the Site, the potential that additional abandoned USTs may be present on the 100 & 120 Meadow Road parcels still exists.

6.3 Groundwater Investigation Results

Between 2018 and 2020, three rounds of groundwater sampling were conducted. Six monitoring wells were sampled during the April 2018 sampling event, however only five monitoring wells were sampled in October 2018 because monitoring well MW-02 could not be located. During the August 2020 sampling event, four monitoring wells were located and sampled; monitoring wells MW-02 and MW-03 were assumed to have been destroyed based on changes in Site use since 2018. The groundwater samples collected during all three sampling events were submitted for laboratory analysis of metals, VOCs, PAHs, pesticides, and herbicides.

No VOCs, pesticides, or herbicides were detected in any of the monitoring wells during any of the groundwater sampling events. The following constituents were detected during the groundwater sampling events, as summarized in *Table 11*:

- Barium was detected below baseline RSR criteria in all monitoring wells in each groundwater sampling event.
- A trace concentration of chromium was detected below baseline RSR criteria at MW-01 during the October 2018 and August 2020 events. Similarly, trace concentrations of chromium were detected below baseline RSR criteria at MW-04, MW-05, and MW-06 during the August 2020 event.
- A trace concentration of silver was detected below baseline RSR criteria at MW-06 during the August 2020 sampling event.
- Several PAHs, including acenaphthene, anthracene, fluoranthene, phenanthrene and/or pyrene were detected in monitoring wells MW-01, MW-02 and MW-03 during one or both of the 2018 sampling events. No PAHs were detected at any of the monitoring wells during the 2020 sampling event.

Based on the completion of three rounds of groundwater monitoring, the results appear to indicate that a significant release to groundwater from site operations has not occurred. The low concentrations of metals and PAH detections are likely related to fill observed throughout several portions of the Site, rather than to potential releases at the AOCs described in previous sections. Refer to *Appendix D* for the groundwater sampling field data sheets.

Additionally, it is noted that a review of a recent Hartford Landfill groundwater monitoring report (on file at DEEP) indicated that well clusters MW-341M/B and MW-342M/B are located on Site, outside of (northeast) the landfill plume containment dike and upgradient of the landfill. Previous sampling data

from these wells indicated arsenic at concentrations exceeded the comparative standard of 0.004 mg/L in the groundwater sample collected from MW-342B (0.009 mg/L), and chromium exceeding the comparative standard of 0.05 mg/L in the groundwater sample collected from well MW-341M (0.06 mg/L). VOCs including 1,2-dichloroethylene (1.3 ug/l) and tetrachloroethylene (2.1 ug/l) were also detected in the groundwater sample collected from well MW-341B below the comparative standards.

While Fuss & O'Neill did not sample these monitoring wells as part of our Phase II/III investigation, previous sampling data indicates there is the potential for groundwater impacts to migrate on Site from the off-site landfill.

6.4 Sediment Sampling Results

Six sediment samples were collected as part of Phase II/Phase III investigations. Three sediment samples (SED-01, SED-02, and SED-06) were collected from the on Site estuary depression and three samples (SED-03 through SED-05) from the Connecticut River bottom. The objective of the sediment sampling was to characterize the environmental quality of sediment existing in the on-Site estuary depression for potential future redevelopment and reuse purposes. Sediment samples SED-01, SED-02 and SED-06 were analyzed for ETPH, PAHs, RCRA 8 metals, pesticides, and herbicides. Grain size and gradation analyses were performed on sediment samples from the Connecticut River (SED-03, SED-04 and SED-05) for hydraulic evaluation associated with future redevelopment plans.

Analytical results from the three on-Site sediment samples were compared to the soil cleanup RSRs. Per RCSA 22a-133k-1(a)(83), sediment removed from any surface water body and placed on dry land is defined as "soil", to which the RSRs would apply.

ETPH, SPLP pesticides, and herbicides were not detected above laboratory reporting limits in any of the three sediment samples collected from the on-Site estuary depression. Metals including arsenic, barium, cadmium, chromium and lead were detected at low concentrations below RSR criteria in all three samples. One pesticide constituent, 4,4'-DDE, was reported at a concentration below RSR criteria in SED-01. Pesticides were not detected above laboratory reporting limits in any other sediment sample (*Table 12*).

7 RSR Status Summary

7.1 AOCs with Identified Releases

The Phase II/Phase III environmental investigations identified releases at five of the eight Site AOCs:

AOC	Release Determination	RSR Status Summary
AOC-01 Riverbank Berm	In general, urban fill was observed along the riverbank berm at depths ranging from less than 1 fbg to	In general, two distinct areas along the riverbank were identified to contain elevated concentrations of PAHs

AOC	Release Determination	RSR Status Summary
	greater than 11 fbg. Based on the observations along the eastern edge of the riverbank, the estimated fill thickness along the berm could extend up to approximately 15 feet below grade. Soil sampling results generally indicated concentrations of ETPH and PAHs in soil consistent with urban fill material containing asphalt fragments and metal slag.	greater than the applicable RSR criteria (Res DEC and/or GB PMC). However, due to the heterogeneity of the materials comprising the berm, fill material from any location in the berm has the potential to exceed the RSRs for ETPH and/or PAHs. Soil management and handling activities will need to be implemented within the specific areas along the northern portion of the riverbank/berm and along the southern peninsula.
AOC-02 Fill Material on Western Portion of Site	Fill material was observed throughout the western portion of the Site, at thicknesses ranging from approximately 1 fbg between the former cinder block structure to approximately 11.5 fbg north of the former residence. In general, the fill was observed to have asphalt, brick, coal, concrete, glass, metal fragments/slag, plastic fragments, and/or wood mixed within the sand. Concentrations of metals, PAHs, ETPH, and pesticides were detected in soil samples collected from this AOC.	ETPH was reported at a concentration greater than the Res DEC at one sample location and PAHs were reported above the Res DEC and/or GB PMC at other select sampling locations. Arsenic and/or lead were also reported at three sampling locations at concentrations above the Res DEC. Concentrations of ETPH, PAHs and metals above RSRs are likely associated with the fill material containing asphalt and coal. Similar to the above AOC, soils containing the observed fill materials may yield exceedances of RSRs. In addition, pesticides were reported at varying concentrations in excess of the GB PMC in samples collected from the vicinity of the barracks and greenhouse. Similar to other pesticide concentrations reported across the Site, these concentrations are likely associated with historical agricultural activities.

AOC	Release Determination	RSR Status Summary
		A concentration of dieldrin was reported at one sample location (SB-15[0-0.5']) above the Res DEC which will require remedial action, likely through excavation and removal.
AOC-03 Material Stockpiles	During initial Site investigations, 23 material stockpiles were identified along the western portion of the Site. Between 2018 and 2021 Site investigations, the stockpiles were sampled and several of the stockpiles were removed or used to grade select portions of the Site. As of March 2021, there are approximately 9 remaining material stockpiles on Site. These stockpiles were observed to contain soil mixed with concrete and asphalt fragments, shingles, brick fragments, and wood chips. Samples from these piles identified concentrations of fill related constituents of concern.	Based on composite soil sampling results, concentrations of arsenic, lead, PAHs, and pesticides were identified in the remaining stockpiles containing fill materials. Observations of the stockpiles and a review of the sampling results indicate Stockpiles A, D, H/I, and K will likely need to be removed from Site and disposed appropriately. Supplemental composite sampling may be required to determine the best on-site reuse options of stockpiles B, C and W, which consist of materials containing peastone, gravel and asphalt.
AOC-05 Pesticide Use (Site Wide)	Pesticide concentrations were reported in samples collected from across the Site (at all AOCs) at levels consistent with industry standard application for agricultural purposes. Pesticides were analyzed in 60 shallow soil samples (approximately 0 to 2 fbg) collected from across the Site. Of these samples, 35 were collected from the former agricultural field located in the central portion of the Site.	Concentrations of pesticides were reported in shallow soil samples collected from across the Site at concentrations that exceeded the GB PMC. All pesticide sampling locations were below the Res DEC with the exception of one sample where dieldrin was reported slightly over the DEC. In general, per RCSA 22a-133k-2(c)(5)(E), if concentrations do not exceed the Res DEC and compliance in groundwater has been demonstrated, the PMC does not

AOC	Release Determination	RSR Status Summary
		apply to residual pesticide concentrations associated with industry standard applications.
AOC-06 Drums and Miscellaneous Containers/Surficial Oil Staining	Several areas of staining were observed in the vicinity of former drums and miscellaneous containers and vehicle/equipment storage areas. PAHs were identified in shallow depth ranges exceeding baseline RSR criteria in two locations.	The investigations completed to date indicate that two small areas of PAH-impacted soil exist in former vehicle & equipment storage areas, likely associated with incidental petroleum releases from the former equipment. Field observations did not identify deeper impacts to subsurface soils. A review of Site groundwater analytical results indicated that the petroleum source of PAHs in this area has not impacted Site groundwater and is limited to the top foot of soil in the two approximately 60-square foot areas where surficial staining was observed. Per RCSA 22a-133k-2(b)(5)(A) and 22a-133k-2(c)(5)(D)(i), soil at a release area polluted with petroleum hydrocarbons or semi-volatile organic substances is not required to be remediated to the direct exposure criteria or pollutant mobility criteria, provided such pollution is the result of an incidental release due to normal operation of motor vehicles, not including refueling, repair or maintenance. Additionally, future development plans include raising grades in the areas of these detections; and therefore, additional remedial actions may not be warranted to address these areas.

The regulatory status of each AOC is presented in the conceptual models discussed above and in *Table 1*.

Overall, concentrations of metals, ETPH, and/or PAHs were detected at concentrations above applicable RSR criteria (GB PMC and/or Res DEC) in select soil samples collected from across the Site, associated with identified fill material. Select areas of impacted fill material were identified which will

require remedial action. Additionally, concentrations of pesticides reported above the GB PMC were reported in soil samples from across the Site are attributable to industry standard applications associated with historical agricultural uses.

7.2 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 80 samples analyzed from across the Site were below the Res DEC, with the exception of one sample location in AOC-02 where dieldrin was reported above the Res DEC (SB-15 [0-0.5']). This result indicates pesticide concentrations slightly elevated in comparison to other sampling locations across the Site that will require removal to achieve compliance with the CT RSRs.

All other pesticide concentrations reported from across the Site were primarily in the shallow soil (between approximately 0-2 fbg) and below Res DEC, indicative of residual concentrations associate with decades of industry standard pesticide application for agricultural purposes. Therefore, the conditions of RCSA 22a-133k-2(c)(5)(E) have been achieved; confirming the PMC do not apply to pesticides at the Site.

Following removal of shallow soil (approximately 1 foot) from an area measuring approximately 25 by 25 feet around the SB-15 area, no further action is warranted with regard to pesticide concentrations in soil at the Site.

7.3 PAHs

During the Phase II/III investigation activities, 95 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 75 sample locations. The PAH constituents reported across the Site are primarily consistent with those reported in fill material containing coal, ash and/or asphalt fragments.

Distinct areas of PAH impacts several orders of magnitude above RSR criteria were identified along the northern and southern portions of the Riverbank (SB-30 and SB-36 areas, respectively) which will require remedial action:

AOC-01: SB-30 Area (Northern end of the Riverbank Berm)

In general, an area measuring approximately 50 by 50 feet was identified to be impacted with PAHs at concentrations exceeded applicable RSR criteria. The elevated impacts were identified to a portion of this area to depths between approximately 4 to 6 feet below grade.

It is noted that this area is likely comingled with an area of impacted fill material (containing PAHs and pesticides) along the southern end of the riverbank berm on the adjacent Winsor Meadows State Park parcel to the north. These areas will likely be addressed concurrently with a combined remedial approach, which will be detailed in forthcoming Remedial Action Plans.

AOC-01: SB-36 Area (Southern end of the Riverbank Berm)

A review of analytical results from samples collected within the SB-36 area, along the southern entrance to the on-Site estuary depression, has identified an area measuring approximately 75 by 80 feet impacted with PAHs at concentrations exceeding applicable RSR criteria to depths ranging from approximately 3 to 6 feet below grade.

A separate area within the southern end of the riverbank berm, along a boring advanced to the northeast of the SB-36 area, was also identified with concentrations of PAHs exceeding applicable RSR criteria to approximately 6 feet below grade.

Select sampling locations located within fill material identified in the western portion of the Site (AOC-02 and AOC-06) also had concentrations of PAHs reported above RSR criteria at levels generally consistent with impacts associated with fill containing asphalt and/or residual petroleum products. Based on current redevelopment plans, these locations can be addressed using proposed grading activities and development activities which will cap the impacted material in place with appropriate clean cover profiles. Details of the specific locations and cover material profiles will be provided in forthcoming Remedial Action Plans.

7.4 Stockpiles

Sampling results from select stockpiles remaining on Site (specifically Stockpiles A, D, H/I and K) identified concentrations of arsenic, lead, PAHs and pesticides at levels greater than acceptable on-Site reuse criteria. Based on the sampling results and physical observations of the material within these stockpiles, it is recommended that the material from these piles be removed from the Site and appropriately disposed of off-Site.

Supplemental composite sampling may be required to determine the best on-site reuse options of stockpiles B, C and W, which consist of materials containing peastone, gravel and asphalt.

8 Conclusions and Recommendations

The RLI property consists of six parcels identified as 228, 590, 600, and 610 Leibert Road parcels in Hartford, CT and the 100 and 120 Meadow Road parcels in Windsor, CT. Operations historically conducted at the RLI Property Site include truck parking (on the northwest portion of the Site), farming (primarily on the central and eastern portions of the Site), earth excavation and stockpiling of sand, silt, and clay (along the southwestern portion of the Site), and equipment staging for railroad construction activities (along the rail line that abuts the Site to the west).

Previous environmental Site assessments identified eight AOCs associated with historical Site operations. Fuss & O'Neill conducted Phase II and Phase III investigations at the RLI properties between 2018 and 2021 to assess the potential for releases within the identified AOCs and to address data gaps identified during initial Phase II ESA investigations.

Based on a review of the findings and analytical data, specific areas of impacted fill were identified on Site which will require remedial action or institutional controls to ultimately achieve compliance with the RSRs and facilitate future redevelopment of the Site:

Identified Releases

RELEASE	ASSOCIATED AOC	LOCATION ON SITE	CONSTITUENTS
Impacted Fill Material along river Berm	AOC-01	Eastern portion of the Site; berm along river, including northern and southern sides of the entry to the river estuary.	ETPH & PAHs
Impacted Fill Material on Western portion of Site; including two areas of incidental petroleum staining.	AOC-02 & AOC-06	Western portion of the Site; along railroad tracks	Arsenic, Lead, ETPH & PAHs
Select Material Stockpiles	AOC-03	Stockpiles A, I, K & W	ETPH, PAHs & Pesticides (Chlordane)
Pesticide Release Area	AOC-05	Northwest portion of Site; area behind former residence	Pesticides (dieldrin)

Recommendations

Based on the results of the Phase II and III investigations, Fuss & O'Neill recommends the preparation of a remedial action plan (RAP) detailing remedial actions, institutional controls and soil management practices to address the release areas identified above during Site redevelopment construction activities.

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Tables

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Table 1
Summary of Areas of Concern
Phase II/III Environmental Site Assessment
Riverfront Land, Inc. (RLI) Properties
Hartford and Windsor, Connecticut

AOC	Description	Constituents of Concern (Bold=Release)	Sampling Locations	Phase II Release Determination	Phase III Characterization Summary	RSR Exceedances	Soil			GW			Recommendations
							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	I/C VC	
AOC-01 Riverbank Berm	The DEEP issued a series of permits to the Russo family permitting them to fill the riverbank on the eastern portion of the Site for erosion protection purposes. The approvals allowed for armoring of the shoreline with rock and masonry material. Subsequently, an approximately 1,100-foot long berm was created (from unknown fill material) along the Connecticut River.	**RCRA 8 Metals** **ETPH** PCBs VOCs **PAHs** **Pesticides**	*Soil* TP-02 TP-03 TP-09 SB-30 – SB-40 SB-30B – SB-30I SS-34 thru SS-36	**Release Identified** In general, fill material consisting of asphalt, brick, coal, concrete, gravel, metal slag and/or wood was observed in sampling locations across the berm to total depths up to 15 feet below grade. Concentrations of constituents associated with fill material were detected in samples collected across the riverbank berm. PAHs and/or ETPH were reported at concentrations above RSR criteria in select locations. During supplemental sampling events, soil borings SB-30 thru SB-33 were advanced along the berm on the eastern-most portion of the Site and borings SB-34 thru SB-37 were advanced on the southeastern-most portion of the Site to further characterize the fill material comprising the berm. ETPH was detected below applicable RSR criteria at SB-30 and several PAHs were detected above applicable RSR criteria at SB-30 and SB-36. PAHs were detected below applicable RSR criteria at borings SB-32 thru SB-34 and SB-37.	To further define elevated PAH concentrations reported in SB-30 and SB-36, supplemental borings were advanced in June 2021 in these areas. Supplemental sampling results identified elevated concentrations of PAHs at select locations within each area, indicative of a significant environmental hazard. Following the completion of the required SEH notification to DEEP, supplemental sampling in these areas conducted in September 2021 further defined the impacted areas as follows: SB-30 Area (northern end of Riverbank) An area measuring approximately 50' by 50' was identified to be impacted with elevated PAH concentrations to a depth between approximately 4-6 fbg. SB-36 Area (southern end of Riverbank) An area measuring approximately 75' by 80' was identified to be impacted with elevated PAH concentrations to a depth between approximately 3-6 fbg. Surficial samples SS-34 thru SS-36 were collected from the riverbank and analyzed for PAHs, which were reported well below applicable RSR criteria.	ETPH PAHs	■ ■	- -	- ■	- -	- -	- -	**Remedial Action** Soil management and handling activities or engineered controls will be required in the SB-30 and SB-36 areas to facilitate implementation of future development plans for these areas.

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							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	I/C VC	
AOC-02 Fill Material on Western Portion of the Site	Aerial photographs and historical topographic maps indicate that a sequence of filling on the western portion of the Site was ongoing from the 1800's through the 2000's beginning with the construction of the Metro North Railroad. From the 1950's onward, agricultural activities on the western portion of the Site were discontinued and the area was used for material processing and excavation of earth materials. The environmental quality of the material used to backfill excavations and to raise grades was unknown.	**RCRA 8 Metals** **ETPH** PCBs **VOCs (Naphthalene)** **PAHs** **Pesticides** Herbicides	<u>Soil</u> TP-04 thru TP-08 TP-13 thru TP-18 MW-02-MW-03 SB-09/MW-05 SB-14, SB-15/15R & SB-16 <u>Groundwater</u> MW-02 MW-03 MW-05	**Release Identified** Fill material consisting of asphalt, brick, metal slag, concrete, gravel and/or wood was identified in borings and test pits located across the western portion of the Site at thicknesses ranging from 1 to greater than 10 feet. ETPH was reported in samples from TP-04, TP-06, and TP-07, with concentrations exceeding baseline RSR criteria in the sample from TP-06. The VOC naphthalene was also detected below RSRs in the sample from TP-06. Metals and PAHs were detected in several samples, including at TP-06, TP-07, and MW-03, at which metals and/or PAHs exceeded applicable RSR criteria. Pesticides were detected below RSRs at TP-04, TP-06, and MW-03. Pesticides were detected above the GB PMC at TP-07, attributable to the industry standard application of pesticides across the Site (discusses further in AOC-05).	Elevated concentrations of metals, PAHs, and/or ETPH are generally associated with the presence of asphalt-containing fill materials. Due to the heterogeneity of the fill, samples collected from any location on the western portion of the Site may yield detections of arsenic, lead, ETPH, PAHs, and/or pesticides above the laboratory reporting limit or the applicable RSR criteria. Test pits TP-13 through TP-16 and soil borings SB-14, SB-15, and SB-15 were sampled to characterize the area in the vicinity of TP-07, located amidst debris from the former barracks and greenhouses. Additional sampling confirmed a release of arsenic, lead, PAHs, and/or pesticides to depths of greater than one fbg in this area. The concentration of dieldrin reported at one sample location (SB-15[0-0.5']) was above the Res DEC and will require remedial action, likely through excavation and removal. Trace concentrations of metals and PAHs were reported in samples from select monitoring wells over three groundwater sampling events, indicating a significant release to groundwater has not occurred.	Arsenic Lead ETPH PAHs Pesticides	■ ■ ■ ■ ■	- - - - -	- - - ■ ■	- - - - -	- - - - -	- - - - -	**Remedial Action** Soil management/ handling activities and institutional controls will likely be required to address the fill impacted soil from this area and ensure it is appropriately reused/capped on Site. A limited area of soil around SB-15, where dieldrin concentrations exceeded the Res DEC will likely need to be excavated and appropriately disposed off-Site.

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							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	I/C VC	
AOC-03 Material Stockpiles	Several material stockpiles were observed on the western portion of the Site during the 2018 Phase I assessment. The stockpiles were labelled as Stockpiles A through W. Stockpiles were observed to contain soil mixed with concrete and asphalt fragments, shingles, brick fragments, and wood chips. Between the time of the initial Phase II investigation and Phase III investigation activities conducted in 2021, several of the previously identified stockpiles had been removed and/or used to grade select areas on Site.	**RCRA 8 Metals** **ETPH** PCBs VOCs **PAHs** **Pesticides** Herbicides	SS-01 SS-03 Stockpile A Stockpile B Stockpile H/I Stockpile K Stockpile L Stockpile N through P Stockpile R through T Stockpile V Stockpile W	**Release Identified** Numerous samples were collected from the Site stockpiles, observed to contain fill materials, including asphalt, brick, concrete, and metals slag. Analytical results from these samples indicated the presence of arsenic, lead, PAHs, and/or pesticides above applicable RSR criteria. As of March 2021, eight of the remaining stockpiles (A, B, C, D, H/I, K, V, and Stockpile W) were observed to contain suspected fill materials, including asphalt, gravel, metal slag, cobbles, brick, and concrete.	Based on the observations made and the results of the stockpile sampling performed during the Phase II and Phase III investigation activities, soil associated with any of the stockpiles with observed fill materials may yield detections of metals, PAHs, and/or pesticides above the laboratory reporting limit, and have the potential to exceed applicable RSR criteria. Furthermore, stockpiles comprised of native soil may contain pesticides at concentrations above the GB PMC due to the widespread site use associated with former agricultural activities.	Arsenic Lead ETPH PAHs Pesticides	■ ■ ■ ■ -	- - - - -	- - - ■ ■	- - - - -	- - - - -	- - - - -	**Stockpile Removal** Remaining Stockpiles containing fill materials (A, D, H/I, and K) should be removed and disposed off-Site. Additional soil management activities may be required to determine the best on-site reuse of the stockpiles containing native material and the stockpiles containing peastone, gravel, and asphalt (Stockpiles B, C, and W).
AOC-04 Historical Fill Material	Since quarrying/excavation activities began at the Site in the early 1970's, multiple excavation and fill events have occurred across the eastern and western portions of the Site. The presence of fill in the central portion of the Site (the former agricultural field) was not previously been confirmed.	**RCRA 8 Metals** PAHs **Pesticides** Herbicides	<u>Soil</u> TP-00 MW-04 SB-10/MW-06 <u>Groundwater</u> MW-04 MW-06	**No Release** No evidence of fill material was observed in the central portion of the Site. Metals were detected at concentrations consistent with inferred background conditions and below baseline RSR criteria. Pesticides were detected but are attributable to historic agricultural activities (AOC 05) rather than fill.	Additional sampling was conducted off the southeastern corner of the former agricultural field. No evidence of fill material was identified. Arsenic and lead were detected at concentrations consistent with inferred background conditions and below baseline RSR criteria.	---	-	-	-	-	-	-	No further action.

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							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	I/C VC	
AOC-05 Pesticide Use (Site-Wide)	The majority of the Site has been used for agricultural purposes dating back to prior to 1934. Given the historic cultivation activities, it was likely that pesticides were regularly applied to the agricultural fields, and thus likely that varying concentrations of residual pesticides are present in shallow soils across the Site.	**Arsenic** **Lead** **Pesticides** Herbicides	SS-04 through SS-06 SS-07 through SS-26 SS-30 thru SS-33 SS-37 SS-38 MW-04 SB-10/MW-06	**Release Identified** Pesticides were detected above the GB PMC in shallow soil samples collected from across the former agricultural field. Arsenic and lead were detected at concentrations consistent with inferred background conditions and below baseline RSR criteria.	Consistent with data collected from the adjacent Windsor Meadow State Park parcel to the north, pesticides, including DDE, DDT, chlordane, dieldrin, and heptachlor epoxide were detected at varying concentrations above the GB PMC at numerous sampling locations collected from the former agricultural field and across the Site. The pesticides 4,4-DDE, 4,4-DDT, and chlordane were the predominant constituents detected, with fewer detects of 4,4-DDD and heptachlor epoxide. Each constituent detected were reported within similar orders of magnitude and no 'hot spot' areas were identified across the agricultural field. 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 soley 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* Three rounds of groundwater monitoring from 2018 to 2020 yielded no detections of pesticides in groundwater, indicating that the release of pesticides has not negatively impacted groundwater quality at the Site.	Pesticides	-	-	■	-	-	-	No further action.

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							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	I/C VC	
AOC-06 Drums & Miscellanecus Containers/ Surficial Oil Staining	During the 2018 Phase I ESA, two 55-gallon drums of unknown substances were observed in poor condition near the former covered storage structure and a 5-gallon bucket full of an unknown substance was observed off the northeast corner of the vacant residential structure surrounded by an approximately 4 foot by 6 foot area stained with oil. During subsequent investigations, the 55-gallon drums and 5-gallon containers had reportedly been removed by the previous Site occupant. Additionally, several vehicles and earth material processing equipment were staged west of the former covered storage structure on the western portion of the Site. Similarly, during the 2018 Phase III investigation, the equipment had been removed from the Site by the previous occupant. Observations of the area in 2018 revealed evidence of incidental staining beneath the equipment.	**RCRA 8 Metals** ETPH PCBs VOCs **PAHs** Pesticides	Drums/Containers: SB-03 SB-04 Surficial Oil Staining: SB-11 SB-12 SB-13	Drums/Containers - **No Release** Metals were detected at concentrations laboratory reporting limits but below baseline RSR criteria at SB-03 and SB-04. PAHs were detected above laboratory detection limits but below baseline RSR criteria at SB-04. However, no evidence of a release was observed beneath the drums or containers and based on fill identified in soil collected from both locations and the soil analytical results, the elevated concentrations of metals and PAHs were attributed to fill (AOC-02) rather than to a release. Surficial Oil Staining - **Release Identified** By the time of the 2019 Phase I ESA, the vehicles and earth material processing equipment previously staged in front of the former covered storage structure had been remove and surficial oil staining had been identified in the area where the equipment had previously been located.	Drums & Misc. Containers: Based on visual observation of the ground beneath the containers, the Phase II soil results, and the removal of the drums and containers from the Site, no Phase III sampling was warranted. Surficial Oil Staining: Two soil borings (SB-11 and SB-12) were advanced in each of two approximately 60-square foot areas of surficial staining and one boring (SB-13) was advanced just west of SB-12, outside of the stained areas. Several PAHs were detected at concentrations above the GB PMC and/or Res DEC to depths of one ftbg at soil borings SB-11 and SB-12. Several PAHs were detected at SB-13, but were below baseline RSR criteria. No PAHs were detected above baseline RSR criteria in groundwater in any of the three groundwater sampling events conducted between 2018 and 2020.	Drum/ Containers: None Surficial Oil Staining: PAHs	- ■	- -	- ■	- -	- -	- -	**Remedial Action** Based on current redevelopment plans, the limited area of petroleum-impacted soil from this area could likely remain in place with appropriate institutional controls.

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							Res Dec	I/C DEC	GB PMC	SWPC	Res VC	I/C VC	
AOC-07 Former Produce Wash Building & Truck Storage	Reportedly, the southern wing of the former produce wash building located on the northwest portion of the Site was historically used as a truck storage area. During the initial Phase I ESA, two vehicles were observed in this portion of the building, as well as several surficial oil stains, sections of pitted concrete, and a floor drain.	**RCRA 8 Metals** ETPH **PCBs** VOCs **PAHs** Pesticides	Soil SB-01 SB-02 SB-05 through SB-08 MW-01 Groundwater MW-01 Concrete CS-01 through CS-04	**Release Identified** Staining was observed on the concrete floor beneath the trucks stored inside the western garage bay. Additionally, metals were detected above laboratory reporting limits at SB-01, SB-02 and MW-01 and PAHs were detected above laboratory reporting limits but below baseline RSR criteria in soil collected from MW-01.	Four concrete chip samples (CS-01 through CS-04) and four soil samples (SB-05 through SB-08) were collected from the same four locations upon removal of the vehicle located within the building. Samples CS-03 and SB-07 were collected from within the 25-square foot stained area in the former vehicle storage bay, while the remaining samples were collected outside the footprint of the stained area. PCBs were detected above the Res DEC in CS-03, but no PCBs were detected in any of the concrete chip samples located outside of the stained areas or in the soil samples collected from beneath the concrete chip samples. The concrete slab was subsequently removed during building demolition activities and the PCB impacted portion was transported and disposed off-Site. Metals detected in all of the soil samples were consistent with background conditions and PAHs detected in soil from MW-01 were attributed to fill material (AOC-02).	PCBs (Concrete)	■	-	-	-	-	-	No Further Action. Impacted concrete has been removed.
AOC-8 Historical Underground Storage Tanks	Based on information obtained regarding historical Site structures, there was potential for previously unidentified fuel oil USTs to be present on the 100 & 120 Meadow Road parcels. No evidence of abandoned former USTs was identified during several GPR surveys completed in this portion of the Site; however, during the demolition of the former produce wash/storage building in August 2020, an abandoned 1,000-gallon fuel oil UST was identified beneath the floor slab.	ETPH VOCs PAHs	*B-E* *B-W* *S-N* *S-S* *S-W* *S-E*	**No Release** GPR surveys conducted during the 2018 Phase II, 2018 Phase III, and 2020 Phase III investigations identified no evidence of a UST near the former Site structures. However, the rear (western) portion of the former cinder block produce wash building was inaccessible during the GPR surveys.	At the time of the UST discovery, the tank was inspected and no evidence of leaking or damage to the tank was observed. The tank contained approximately 300 gallons of water and residual No. 2 heating oil, which was removed by Tank Works CT, (Manchester, Connecticut) on October 1, 2020. Following tank removal, Fuss & O'Neill conducted confirmatory tank grave soil sampling and identified no evidence of a release to the subsurface.	---	-	-	-	-	-	-	No further action. Given the history of the Site, however, the potential that additional abandoned USTs may be present on the 100 & 120 Meadow Road parcels still exists.

Notes:
Bold text = release
VOCs = volatile organic compounds
ETPH = extractable total petroleum hydrocarbons
PAHs = polycyclic aromatic hydrocarbons
PCBs = polychlorinated biphenyls
RCRA 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver)
fbg = feet below grade
---- = no RSR exceedance identified
DEC = direct exposure criteria
Res = residential
I/C = industrial/commercial
PMC = pollutant mobility criteria
SWPC = surface water protection criteria
Res VC = residential volatilization criteria

Table 2
Monitoring Well Construction and Groundwater Elevation Data

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford 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	4/6/2018	1	20	20-10	24.28	4/6/2018	11.12	13.16
						4/12/2018	10.99	13.29
						10/29/2018	11.81	12.47
						8/26/2020	13.07	11.21
MW-02	4/6/0218	1	20	20-10	24.16	4/6/2018	12.17	11.99
						4/12/2018	12.19	11.97
						10/29/2018	NM	NM
						8/26/2020	NM	NM
MW-03	4/6/2018	1	12	12-2	28.66	4/12/2018	7.43	21.23
						10/29/2018	7.46	21.20
						8/26/2020	NM	NM
MW-04	4/6/2018	1	19	19-9	21.14	4/6/2018	12.26	8.88
						4/12/2018	13.87	7.27
						10/29/2018	16.22	4.92
						8/26/2020	19.03	2.11
MW-05	10/25/2018	2	19	19-9	27.92	10/25/2018	17.20	10.72
						10/29/2018	17.30	10.62
						8/26/2020	19.30	8.62
MW-06	10/25/2018	2	15	15-5	19.53	10/25/2018	12.78	6.75
						10/29/2018	14.67	4.86
						8/26/2020	17.23	2.30

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

MW-02 was not located and therefore not measured during the October 2018 gauging event

in - inch, ft - feet

fbg - feet below grade

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Table 3
Summary of Constituents Detected in Soil - AOC-01

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			AOC-01 Riverbank Berm																									
	Sample Location		TP-01		TP-02	TP-03	TP-09	TP-10	TP-11	TP-12	SB-30	SB-31	SB-32	SB-33	SB-34	SB-35	SB-36	SB-37	SB-38			SB-39			SB-40		SS-34	SS-35	SS-36
	Sample Depth (feet)		0-0.5	6-7.5	5-6	5-7	5-7	5-7	4-5	5-6	0-2	0-2 & 2-4	0-2	5-6.2	0.1-6	0-2	0.5-2.5	0-2	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	0-0.5	0-0.5	0-0.5
	Sample Date		4/5/2018	4/5/2018	4/5/2018	4/5/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018	3/5/2021	3/5/2021	3/5/2021	3/5/2021	3/5/2021	3/5/2021	3/5/2021	3/5/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	3/1/2021	3/1/2021	3/1/2021
	Sample Number		13051804O5-06	13051804O5-03	13051804O5-05	13051804O5-34	153-4181023-01	153-4181022-02	153-4181023-03	153-4181023-04	13052103O5-01	13052103O5-02	13052103O5-03	13052103O5-05	13052-0305-06	13052102O5-07	13052103O5-08	13052103O5-09	16452109I4-37	16452109I4-38	16452109I4-39	16452109I4-40	16452109I4-41	16452109I4-54	16452109I4-55	13052102O1-06	13052103O1-07	13052103O1-08
CONSTITUENTS	CT DEEP RSRs Res DEC	GB PMC																										
Metals, Total (mg/Kg)																												
Arsenic	10	N/A	---	**2.15**	**4.75**	**5.69**	**3.15**	**2.4**	**1.49**	**1.88**	**5.65**	**2.56**	**4.47**	**1.9**	**3.45**	**2.52**	**6.16**	**4.12**	**5.23**	**6.15**	---	**2.99**	**5.49**	**4.55**	**3.37**	---	---	---
Barium	4,700	N/A	---	**22.4**	**278**	**183**	**79.4**	**52.3**	**21.5**	**16.5**	**105**	**74**	**191**	**68.4**	**179**	**55.2**	**148**	**97.6**	**117**	**228**	---	**145**	**131**	**104**	**137**	---	---	---
Cadmium	34	N/A	---	<0.46	<0.43	<0.49	**0.37**	< 0.36	< 0.43	< 0.34	**1.25**	**0.5**	**1.45**	**0.7**	**1.12**	**0.74**	**1.32**	**1.17**	**1.25**	**1.34**	---	**1.5**	**1.3**	**1.41**	**1.05**	---	---	---
Chromium	100	N/A	---	**13.8**	**33.6**	**35.5**	**17.1**	**13.9**	**10.4**	**10.2**	**21.9**	**15.9**	**29.7**	**15.5**	**24.9**	**16.6**	**26.3**	**25.5**	**20.1**	**35.4**	---	**31.9**	**26.9**	**24.9**	**22**	---	---	---
Lead	400	N/A	---	**2.49**	**220**	**18.1**	**26.9**	**2.92**	**2.15**	**2.32**	**66.7**	**10.1**	**126**	**26.2**	**17.9**	**4.55**	**41.6**	**36**	**160**	**179**	---	**24.5**	**13.2**	**28.6**	**9.28**	---	---	---
Mercury	20	N/A	---	<0.03	**0.29**	<0.04	**0.04**	< 0.03	< 0.04	< 0.03	**0.15**	<0.07	**0.2**	<0.07	<0.07	<0.07	<0.07	<0.07	**0.6**	< 0.05	---	**0.04**	< 0.03	**0.04**	< 0.03	---	---	---
Selenium	340	N/A	---	<1.9	<1.7	<2.0	< 1.6	< 1.5	< 1.7	< 1.3	<1.4	<1.5	<1.4	<1.4	<1.5	<1.6	<1.6	<1.5	<1.4	< 1.6	---	< 1.4	< 1.5	< 1.6	< 1.5	---	---	---
Silver	340	N/A	---	<0.46	<0.43	<0.49	< 0.39	< 0.36	< 0.43	< 0.34	<0.36	<0.38	<0.39	<0.34	<0.37	<0.39	<0.39	<0.37	< 0.36	< 0.41	---	< 0.35	< 0.38	< 0.41	< 0.38	---	---	---
Metals, SPLP (mg/L)																												
Arsenic	N/A	0.5	---	---	**0.004**	<0.004	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Barium	N/A	10	---	---	**0.117**	**0.028**	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cadmium	N/A	0.05	---	---	<0.005	<0.005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chromium	N/A	0.5	---	---	**0.017**	<0.010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Lead	N/A	0.02	---	---	<0.0005	<0.0005	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Mercury	N/A	0.15	---	---	**0.0094**	<0.010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Selenium	N/A	0.5	---	---	<0.020	<0.020	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	N/A	0.36	---	---	<0.010	<0.010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
ET ETPH (mg/Kg)																												
Est. Petroleum H.C. (C9-C36)	500	2,500	---	<65	<62	<69	**570**	< 59	< 65	< 52	**550**	<280	<290	<270	<260	<34	<270	<270	< 61	**1,300**	---	< 53	< 56	< 280	< 270	---	---	---
MA EPH (mg/Kg)																												
C11-C22 Aromatic Hydrocarbons 1,2*	*500*	*30*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**130**	---	---	---	---	---	---	---	---
C11-C22 Aromatic Hydrocarbons Unadj	*500*	*30*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**170**	---	---	---	---	---	---	---	---
C19-C36 Aliphatic Hydrocarbons 1*	*1,000*	*200*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**190**	---	---	---	---	---	---	---	---
C9-C18 Aliphatic Hydrocarbons 1*	*500*	*140*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	< 78	---	---	---	---	---	---	---	---
Total TPH 1,2*	NE	NE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**550**	---	---	---	---	---	---	---	---
PCBs (ug/Kg)																												
Total PCBs	1,000	5**	---	---	<420	<460	---	---	---	---	<360	<370	<390	<370	<360	<370	<360	<360	<400	<390	---	---	---	---	---	---	---	---
VOCs (ug/Kg)																												
Total VOCs	Varies	Varies	---	---	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
PAHs (ug/Kg)																												
1-Methylnaphthalene	[270,000]	[5,600]	---	<170	<300	<180	< 270	< 280	< 300	< 250	<250	<750	<270	<260	<250	<250	<2,500	<250	< 280	< 270	**730**	< 250	< 250	< 260	< 260	< 340	<370	<330
Acenaphthene	[1,000,000]	[84,000]	---	<170	<300	<180	< 270	< 280	< 300	< 250	**630**	<750	<270	<260	<250	<250	<2,500	<250	< 280	**500**	**2,900**	< 250	< 250	< 260	< 260	< 340	<370	<330
Acenaphthylene	1,000,000	84,000	---	<170	<300	<180	< 270	< 280	< 300	< 250	**650**	<750	<270	<260	<250	<250	<2,500	<250	< 280	< 270	**290**	< 250	< 250	**260**	< 260	< 340	<370	<330
Anthracene	1,000,000	400,000	---	<170	<300	<180	**350**	< 280	< 300	< 250	**990**	<750	**290**	<260	<250	<250	<2,500	<250	< 280	**900**	**7,700**	< 250	< 250	< 260	< 260	< 340	<370	<330
Benz(a)anthracene	1,000	1,000	---	<170	**370**	<180	**900**	< 280	< 300	< 250	**4,600**	**940**	**710**	**660**	**320**	<250	**13,000**	**390**	**870**	**1,000**	**12,000**	**360**	< 250	**400**	< 260	< 340	<370	<330
Benzo(a)pyrene	1,000	1,000	---	<170	<300	<180	**920**	< 280	< 300	< 250	**4,900**	**750**	**900**	**540**	**370**	<250	**16,000**	**670**	**950**	**1,400**	**16,000**	**410**	< 250	**510**	< 260	**540**	<370	<330
Benzo(b)fluoranthene	1,000	1,000	---	<170	<300	<180	**710**	< 280	< 300	< 250	**4,500**	<750	**660**	**400**	**470**	<250	**14,000**	**550**	**1,000**	**2,600**	**9,000**	**300**	< 250	**350**	< 260	< 340	<370	<330
Benzo(ghi)perylene	[8,400]	[1,000]	---	<170	<300	<180	**550**	< 280	< 300	< 250	**2,700**	<750	**500**	**260**	**340**	<250	**10,000**	**320**	**550**	**700**	**5,100**	**410**	< 250	**360**	< 260	< 340	<370	<330
Benzo(k)fluoranthene	8,400	1,000	---	<170	<300	<180	**640**	< 280	< 300	< 250	**3,100**	**710**	**590**	**400**	**440**	<250	**12,000**	**350**	**660**	**1,100**	**5,500**	**490**	< 250	**350**	< 260	< 340	<370	<330
Chrysene	[84,000]	[1,000]	---	<170	**370**	<180	**550**	< 280	< 300	< 250	**4,700**	**750**	**720**	**460**	**320**	<250	**14,000**	**600**	**940**	**1,100**	**11,000**	**350**	< 250	**450**	< 260	< 340	<370	<330
Dibenz(a,h)anthracene	[1,000]	[1,000]	---	<170	<300	<180	< 270	< 280	< 300	< 250	**700**	<750	<270	<260	<250	<250	<2,500	<250	< 280	< 270	**1,200**	< 250	< 250	< 260	< 260	< 340	<370	<330
Fluoranthene	1,000,000	56,000	---	<170	**830**	<180	**1,600**	< 280	< 300	< 250	**13,000**	**1,300**	**1,400**	**940**	**1,100**	<250	**24,000**	**710**	**2,000**	**3,300**	**15,000**	**560**	< 250	**750**	**250**	**590**	<370	<330
Fluorene	1,000,000	56,000	---	<170	<300	<180	< 270	< 280	< 300	< 250	**590**	<750	<270	<260	<250	<250	<2,500	<250	< 280	**570**	**5,900**	< 250	< 250	< 260	< 260	< 340	<370	<330
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	---	<170	<300	<180	**560**	< 280	< 300	< 250	**5,100**	<750	**590**	**360**	**380**	<250	**11,000**	**320**	**560**	**790**	**5,800**	**440**	< 250	**360**	< 260	< 340	<370	<330
Naphthalene	1,000,000	56,000	---	<170	<300	<180	< 270	< 280	< 300	< 250	<250	<750	<270	<260	<250	<250	<2,500	<250	< 280	< 270	**1,900**	< 250	< 250	< 260	< 260	< 340	<370	<330
Phenanthrene	1,000,000	40,000	---	<170	**770**	<180	**910**	< 280	< 300	< 250	**2,500**	<750	**950**	**480**	**750**	<250	**5,100**	**320**	**560**	**5,100**	**25,000**	**460**	< 250	**500**	< 260	**410**	<370	<330
Pyrene	1,000,000	40,000	---	<170	**500**	<180	**1,600**	< 280	< 300	< 250	**11,000**	**1,300**	**1,200**	**930**	**930**	<250	**22,000**	**660**	**1,900**	**5,000**	**28,000**	**820**	< 250	**920**	**270**	< 340	<370	<330
Pesticides (ug/Kg)																												
4,4'-DDD	[1,800]	[20]	<8.5	---	<4.2	<4.6	< 7.7	< 7.8	< 8.7	<7.1	<7.2	<7.5	<7.9	<7.3	<7.1	<7.3	<7.1	<7.3	---	---	---	---	---	---	---	---	---	---	---
4,4'-DDE	[1,800]	[20]	<8.5	---	<4.2	<4.6	< 7.7	< 7.8	< 8.7	<7.1	<7.2	<7.5	<7.9	<7.3	<7.1	<7.3	**8.5**	<7.3	---	---	---	---	---	---	---	---	---	---
4,4'-DDT	[1,800]	[20]	<8.5	---	<4.2	<4.6	< 7.7	< 7.8	< 8.7	<7.1	**9**	**9.2**	<7.9	<7.3	<7.1	<7.3	<7.1	<7.3	---	---	---	---	---	---	---	---	---	---
Dieldrin	490	66	<42	---	<21	<23	< 38	< 39	< 43	< 35	<36	<37	<39	<37	<36	<37	<36	<36	---	---	---	---	---	---	---	---	---	---
Dieldrin	38	7	<4.2	---	<2.1	<2.3	< 3.8	< 3.9	< 4.3	< 3.5	<3.6	<3.7	<3.9	<3.7	<3.6	<3.7	<3.6	<3.6	---	---	---	---	---	---	---	---	---	---
Heptachlor epoxide	67	20	<8.5	---	<4.2	<4.6	< 7.7	< 7.8	< 8.7	< 7.1	<7.2	<7.5	<7.9	<7.3	<7.1	<7.3	<7.1	<7.3	---	---	---	---	---	---	---	---	---	---

Notes:
mg = milligram, kg = kilogram, L = Liter, ug = microgram
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
NE = Not established
N.D. = Not detected
[Green Text] = DEEP fast-track approvable additional pollutting substances, DEEP approval required
**Value* = DEEP EPH/VPH expedited approval values using DEEP-provided form; DEEP approval required
0.25-0^{DUP} - indicates a duplicate sample was collected; the higher results of the two samples was reported
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons; PCBs = Polychlorinated Biphenyls
** Pollutant Mobility Criteria units for PCBs are mg/L

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Table 3a
Summary of Constituents Detected in Soil - SB-30 Area (AOC-01)

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

				SB-30	SB-30B		SB-30C			SB-30D			SB-30E			SB-30F			SB-30G			SB-30H			SB-30I		
			Soil Boring																								
			Sample Date	3/5/2021	6/3/2021	9/14/2021	6/3/2021	9/14/2021	9/14/2021	6/3/2021	9/14/2021	9/14/2021	6/3/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
			Sample Number	1305210305-01	1643210603-01	1643210914-53	1643210603-03	1643210914-55	1643210914-56	1643210603-02	1643210914-46	1643210914-47	1643210603-04	1643210914-51	1643210914-52	1643210914-43	1643210914-44	1643210914-45	1643210914-48	1643210914-49	1643210914-50	1643210914-57	1643210914-58	1643210914-60	1643210914-61	1643210914-62
			Sample Depth (feet)	0-2	1-2	2-4	1-2	2-4	4-6	1-2	0-2	2-4	1-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	0-2	2-4	4-6
CONSTITUENTS	CT DEEP RSR CRITERIA																										
	GA PMC	Res DEC	RSI SEH (15xDEC)																								
PAHs (ug/kg)																											
2-Methylnaphthalene	[50]	[270,000]	4050000	<250	< 280	< 250	5,700	< 260	< 2900	300	< 260	< 2400	< 300	2,800	< 2700	290	< 250	< 260	< 260	< 250	< 290	< 250	< 350	< 270	< 2400	< 2500
Acenaphthene	[8,400]	[1,000,000]	15000000	620	480	< 250	20,000	380	< 2900	1,500	< 260	< 2400	< 300	7,000	< 2700	1,000	< 250	< 260	< 260	340	< 290	420	< 350	380	< 2400	< 2500
Acenaphthylene	8,400	1,000,000	15000000	450	550	< 250	5,800	1,000	< 2900	1,100	< 260	< 2400	550	3,900	< 2700	2,400	2,100	620	880	1,600	< 290	6,000	470	1,300	9,300	30,000
Anthracene	40,000	1,000,000	15000000	890	1,600	< 250	45,000	1,600	5,000	3,800	< 260	1,400	640	12,000	< 2700	4,400	1,400	750	460	2,100	< 290	4,400	< 350	1,300	5,900	20,000
Benz(a)anthracene	1,000	1,000	15000	4,600	3,400	< 250	140,000	4,000	12,000	16,000	370	3,800	2,400	8,000	< 1000	17,000	6,600	1,700	1,700	5,400	< 290	8,900	400	4,600	15,000	69,000
Benzo(a)pyrene	1,000	1,000	15000	4,900	3,100	< 250	230,000	4,000	11,000	18,000	510	5,700	2,700	5,200	< 1000	18,000	8,800	1,500	2,000	5,200	< 290	11,000	390	4,900	14,000	60,000
Benzo(b)fluoranthene	1,000	1,000	15000	4,300	3,000	< 250	230,000	3,300	9,300	15,000	470	4,100	2,600	4,000	< 1000	18,000	7,800	1,300	1,900	4,100	< 290	12,000	< 350	4,100	13,000	56,000
Benzo(ghi)perylene	[1,000]	[8,400]	126000	2,700	2,700	< 250	67,000	2,200	6,000	9,900	320	5,000	1,400	3,700	< 1000	6,300	3,700	900	1,100	2,600	< 290	8,000	< 350	2,700	9,500	35,000
Benzo(k)fluoranthene	1,000	8,400	126000	3,100	4,300	< 250	200,000	3,000	10,000	17,000	410	4,600	2,200	4,600	< 1000	13,000	5,700	1,400	1,700	3,600	< 290	6,600	< 350	3,700	12,000	46,000
Chrysene	[1,000]	[84,000]	1260000	4,700	6,100	< 250	150,000	3,900	13,000	18,000	380	3,800	2,400	7,700	< 1000	20,000	6,800	1,800	1,700	5,200	< 290	9,900	450	5,100	14,000	71,000
Dibenz(a,h)anthracene	[1,000]	[1,000]	15000	700	1,100	< 250	26,000	700	1,900	2,700	< 260	1,300	320	< 1000	< 1000	2,300	1,100	260	< 260	750	< 290	2,600	< 350	890	2,200	12,000
Fluoranthene	5,600	1,000,000	15000000	13,000	13,000	< 250	350,000	6,800	26,000	33,000	650	10,000	4,800	27,000	< 2700	49,000	16,000	3,700	3,400	7,000	< 290	16,000	760	12,000	37,000	280,000
Fluorene	5,600	1,000,000	15000000	580	730	< 250	30,000	600	< 2900	2,200	< 260	< 2400	350	11,000	< 2700	1,800	460	500	< 260	1,000	< 290	1,100	< 350	590	2,300	9,000
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	15000	3,100	3,200	< 250	140,000	2,300	6,300	7,100	490	4,800	1,300	3,400	< 1000	11,000	4,000	940	1,200	2,900	< 290	8,100	350	3,000	9,500	39,000
Naphthalene	5,600	1,000,000	15000000	<250	< 280	390	15,000	< 260	< 2900	580	< 260	< 2400	< 300	2,300	< 2700	540	< 250	< 260	< 260	370	< 290	340	< 350	< 270	< 2400	< 2500
Phenanthrene	4,000	1,000,000	15000000	2,900	6,200	370	260,000	6,300	19,000	25,000	< 260	4,200	2,900	34,000	< 2700	23,000	4,300	3,100	1,000	6,800	< 290	5,000	460	5,500	21,000	71,000
Pyrene	4,000	1,000,000	15000000	11,000	7,800	< 250	270,000	6,400	23,000	28,000	650	8,900	4,200	21,000	< 2700	43,000	15,000	3,400	3,600	6,200	< 290	15,000	810	7,400	29,000	220,000
SPLP PAHs (ug/L)	*NoGWPC*																										
2-Methylnaphthalene	280	N/A	N/A	---	---	---	---	< 0.51	---	---	---	---	---	< 0.47	---	< 0.50	---	---	< 0.52	---	---	---	---	---	< 0.49	---
Acenaphthene	4,200	N/A	N/A	---	---	---	---	< 0.51	---	---	---	---	---	6.8	---	< 0.50	---	---	< 0.52	---	---	---	---	---	< 0.49	---
Acenaphthylene	4,200	N/A	N/A	---	---	---	---	< 0.31	---	---	---	---	---	0.57	---	< 0.30	---	---	< 0.31	---	---	---	---	---	< 0.29	---
Anthracene	20,000	N/A	N/A	---	---	---	---	< 0.51	---	---	---	---	---	2.3	---	< 0.50	---	---	< 0.52	---	---	---	---	---	0.52	---
Benz(a)anthracene	0.6	N/A	N/A	---	---	---	---	0.05	---	---	---	---	---	0.07	---	0.05	---	---	< 0.05	---	---	---	---	---	0.15	---
Benzo(a)pyrene	2	N/A	N/A	---	---	---	---	< 0.20	---	---	---	---	---	< 0.19	---	< 0.20	---	---	< 0.21	---	---	---	---	---	< 0.20	---
Benzo(b)fluoranthene	0.8	N/A	N/A	---	---	---	---	< 0.07	---	---	---	---	---	< 0.07	---	< 0.07	---	---	< 0.07	---	---	---	---	---	0.11	---
Benzo(ghi)perylene	4.8	N/A	N/A	---	---	---	---	< 0.49	---	---	---	---	---	< 0.45	---	< 0.48	---	---	< 0.50	---	---	---	---	---	< 0.47	---
Benzo(k)fluoranthene	5	N/A	N/A	---	---	---	---	< 0.31	---	---	---	---	---	< 0.28	---	< 0.30	---	---	< 0.31	---	---	---	---	---	< 0.29	---
Chrysene	48	N/A	N/A	---	---	---	---	< 0.51	---	---	---	---	---	< 0.47	---	< 0.50	---	---	< 0.52	---	---	---	---	---	< 0.49	---
Dibenz(a,h)anthracene	1	N/A	N/A	---	---	---	---	< 0.10	---	---	---	---	---	< 0.09	---	< 0.10	---	---	< 0.10	---	---	---	---	---	< 0.10	---
Fluoranthene	2,800	N/A	N/A	---	---	---	---	0.55	---	---	---	---	---	1.4	---	< 0.50	---	---	< 0.52	---	---	---	---	---	1.4	---
Fluorene	2,800	N/A	N/A	---	---	---	---	< 0.51	---	---	---	---	---	4.9	---	< 0.50	---	---	< 0.52	---	---	---	---	---	0.7	---
Indeno(1,2,3-cd)pyrene	1	N/A	N/A	---	---	---	---	< 0.10	---	---	---	---	---	< 0.09	---	< 0.10	---	---	< 0.10	---	---	---	---	---	< 0.10	---
Naphthalene	2,800	N/A	N/A	---	---	---	---	< 0.51	---	---	---	---	---	< 0.47	---	< 0.50	---	---	< 0.52	---	---	---	---	---	< 0.49	---
Phenanthrene	2,000	N/A	N/A	---	---	---	---	0.42	---	---	---	---	---	6.6	---	0.15	---	---	< 0.06	---	---	---	---	---	0.59	---
Pyrene	2,000	N/A	N/A	---	---	---	---	< 0.51	---	---	---	---	---	0.91	---	< 0.50	---	---	< 0.52	---	---	---	---	---	0.72	---

Notes:
Bold and Grey shaded cells indicates an exceedance of one or more of the listed standard RSR criteria
Bold and Orange shaded cells indicates a Residential Significant Environmental Hazard condition (15x Res DEC)

Res DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
SEH = Significant Environmental Hazard
[Green Text] = DEEP fast-track approvable additional polluting substances; DEEP approval required

< #= Not detected above given laboratory reporting limit / Italics indicates laboratory reporting limit exceeds applicable RSR criteria
PAHs = Polynuclear Aromatic Hydrocarbons
ug/kg = micrograms per kilogram
ug/L = micrograms per liter

FUSS & O'NEILL

Table 3b
Summary of Constituents Detected in Soil - SB-36 Area (AOC-01)

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, LLC
Hartford and Windsor, CT

CONSTITUENTS	CT DEEP RSR CRITERIA GA PMC	Res DEC	Res SEH (1.5xDEC)	Soil Boring	SB-34	SB-36A*	SB-36B	SB-36C	SB-36D		SB-36E		SB-36F			SB-36G		SB-36H	SB-36I	SB-36J		SB-36K			SB-36L			SB-36M		
				Sample Date	3/5/2021	6/3/2021	6/3/2021	6/3/2021	6/3/2021	9/14/2021	6/3/2021	9/14/2021	6/3/2021	9/14/2021	9/14/2021	6/3/2021	9/14/2021	6/3/2021	6/3/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/2021
				Sample Number	1305210305-08	1643210603-05	1643210603-06	1643210603-08	1643210603-10	1643210914-08	1643210603-12	1643210914-10	1643210603-07	1643210914-23	1643210914-24	1643210603-09	1643210914-15	1643210603-11	1643210603-13	1643210914-02	1643210914-03	1643210914-05	1643210914-06	1643210914-12	1643210914-13	1643210914-17	1643210914-18	1643210914-19
				Sample Depth (feet)	0.3-2.3	2-4	1-2	1-2	1-2	2-4	1-2	2-4	1-2	2-4	4-6	1-2	2-4	1-2	1-2	0-2	2-4	0-2	2-4	0-2	2-4	0-2	2-4	4-6
PAHs (ug/kg)																														
2-Methylnaphthalene	[640]	[270,000]	4050000		<2,300	< 430	< 1700	< 250	< 1900	< 270	< 1900	< 280	360	< 270	< 320	< 250	< 270	< 260	< 260	< 260	< 270	< 260	< 270	< 270	< 270	< 260	< 280	< 250
Acenaphthene	[8,400]	[1,000,000]	15000000		<2,500	750	8,800	1,400	3,200	< 270	3,700	< 280	3,800	< 270	< 320	2,100	< 270	510	470	< 260	< 270	< 260	< 270	< 270	< 270	< 260	< 280	< 250
Acenaphthylene	8,400	1,000,000	15000000		<2,500	500	< 2,600	330	< 2,600	< 270	< 2,700	290	570	450	< 320	740	840	380	390	1,300	< 270	380	< 270	< 270	< 270	820	2,100	340
Anthracene	40,000	1,000,000	15000000		<2,500	1,600	17,000	2,600	6,100	< 270	7,000	< 280	6,300	320	< 320	3,800	360	770	1,100	1,100	< 270	1,200	< 270	< 270	< 270	600	1,000	< 250
Benz(a)anthracene	1,000	1,000	15000		13,000	6,000	110,000	10,000	57,000	4.9J	60,000	370	67,000	1,100	< 320	42,000	630	4,100	7,300	4,600	< 270	3,600	< 270	< 270	340	1,800	1,800	630
Benzo(a)pyrene	1,000	1,000	15000		16,000	8,600	210,000	11,000	74,000	4.5J	74,000	420	84,000	1,300	< 320	54,000	970	5,700	13,000	4,300	< 270	3,600	< 270	< 270	390	1,900	1,700	710
Benzo(b)fluoranthene	1,000	1,000	15000		14,000	8,700	180,000	29,000	91,000	440	100,000	460	62,000	1,100	< 320	66,000	890	5,600	14,000	4,300	< 270	3,500	< 270	< 270	620	2,000	1,400	610
Benzo(ghi)perylene	[1,000]	[8,400]	126000		10,000	6,200	160,000	21,000	46,000	3.9J	48,000	350	42,000	870	< 320	32,000	890	4,300	6,500	2,400	360	2,200	< 270	< 270	600	1,500	1,300	620
Benzo(k)fluoranthene	1,000	8,400	126000		12,000	5,800	150,000	24,000	42,000	460	56,000	440	49,000	950	< 320	40,000	780	3,100	6,200	3,900	< 270	3,000	< 270	< 270	580	1,900	1,400	680
Chrysene	[1,000]	[84,000]	1260000		14,000	9,400	110,000	20,000	64,000	5.2J	66,000	330	75,000	1,100	< 320	45,000	760	5,000	12,000	4,700	< 270	4,100	< 270	270	630	2,300	1,900	780
Dibenz(a,h)anthracene	[1,000]	[1,000]	15000		<2,500	360	26,000	4,900	8,600	< 270	9,800	< 280	7,400	< 270	< 320	4,900	< 270	1,600	2,500	730	< 270	580	< 270	< 270	< 270	360	330	280
Fluoranthene	5,600	1,000,000	15000000		24,000	19,000	230,000	34,000	92,000	6.3J	100,000	800	83,000	2,000	340	65,000	860	6,200	22,000	17,000	310	6,700	< 270	420	920	3,000	2,400	1,200
Fluorene	5,600	1,000,000	15000000		<2,500	660	6,600	980	< 2,600	< 270	< 2,700	< 280	3,100	< 270	< 320	1,600	< 270	270	370	< 260	< 270	370	< 270	< 270	< 270	< 260	630	< 250
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	15000		11,000	6,700	170,000	21,000	45,000	3.5J	48,000	330	47,000	940	< 320	35,000	750	4,800	7,200	2,600	370	2,300	< 270	< 270	550	1,500	1,100	650
Naphthalene	5,600	1,000,000	15000000		<2,500	< 430	< 2,600	< 250	< 2,600	< 270	< 2,700	< 280	600	< 270	< 320	260	< 270	< 260	< 260	< 260	< 270	< 260	< 270	< 270	< 270	< 260	< 280	< 250
Phenanthrene	4,000	1,000,000	15000000		8,100	6,700	94,000	13,000	30,000	3.0J	35,000	4.3J	58,000	890	< 320	31,000	< 270	3,000	4,300	2,700	< 270	4,500	< 270	< 270	530	2,400	1,700	720
Pyrene	4,000	1,000,000	15000000		22,000	18,000	190,000	32,000	89,000	3.8J	96,000	730	83,000	2,200	360	61,000	1,000	6,000	21,000	16,000	280	5,900	< 270	380	850	4,200	3,900	1,200
SPLP PAHs (ug/L)	70xGWPC																													
2-Methylnaphthalene	280	N/A	N/A		---	---	---	---	---	< 0.49	---	---	---	---	---	---	---	---	---	< 0.47	---	< 0.52	---	---	---	---	< 0.50	---
Acenaphthene	4,200	N/A	N/A		---	---	---	---	---	< 0.49	---	---	---	---	---	---	---	---	---	< 0.47	---	< 0.52	---	---	---	---	< 0.50	---
Acenaphthylene	4,200	N/A	N/A		---	---	---	---	---	< 0.29	---	---	---	---	---	---	---	---	---	< 0.28	---	< 0.31	---	---	---	---	< 0.30	---
Anthracene	20,000	N/A	N/A		---	---	---	---	---	< 0.49	---	---	---	---	---	---	---	---	---	< 0.47	---	< 0.52	---	---	---	---	< 0.50	---
Benz(a)anthracene	0.6	N/A	N/A		---	---	---	---	---	< 0.05	---	---	---	---	---	---	---	---	---	< 0.05	---	< 0.05	---	---	---	---	0.28	---
Benzo(a)pyrene	2	N/A	N/A		---	---	---	---	---	< 0.20	---	---	---	---	---	---	---	---	---	< 0.19	---	< 0.21	---	---	---	---	< 0.20	---
Benzo(b)fluoranthene	0.8	N/A	N/A		---	---	---	---	---	< 0.07	---	---	---	---	---	---	---	---	---	< 0.07	---	< 0.07	---	---	---	---	0.19	---
Benzo(ghi)perylene	4.8	N/A	N/A		---	---	---	---	---	< 0.47	---	---	---	---	---	---	---	---	---	< 0.45	---	< 0.49	---	---	---	---	< 0.48	---
Benzo(k)fluoranthene	5	N/A	N/A		---	---	---	---	---	< 0.29	---	---	---	---	---	---	---	---	---	< 0.28	---	< 0.31	---	---	---	---	< 0.30	---
Chrysene	48	N/A	N/A		---	---	---	---	---	< 0.49	---	---	---	---	---	---	---	---	---	< 0.47	---	< 0.52	---	---	---	---	< 0.50	---
Dibenz(a,h)anthracene	1	N/A	N/A		---	---	---	---	---	< 0.10	---	---	---	---	---	---	---	---	---	< 0.09	---	< 0.10	---	---	---	---	< 0.10	---
Fluoranthene	2,800	N/A	N/A		---	---	---	---	---	< 0.49	---	---	---	---	---	---	---	---	---	< 0.47	---	< 0.52	---	---	---	---	1.6	---
Fluorene	2,800	N/A	N/A		---	---	---	---	---	< 0.49	---	---	---	---	---	---	---	---	---	< 0.47	---	< 0.52	---	---	---	---	< 0.50	---
Indeno(1,2,3-cd)pyrene	1	N/A	N/A		---	---	---	---	---	< 0.10	---	---	---	---	---	---	---	---	---	< 0.09	---	< 0.10	---	---	---	---	< 0.10	---
Naphthalene	2,800	N/A	N/A		---	---	---	---	---	< 0.49	---	---	---	---	---	---	---	---	---	< 0.47	---	< 0.52	---	---	---	---	< 0.50	---
Phenanthrene	2,000	N/A	N/A		---	---	---	---	---	< 0.06	---	---	---	---	---	---	---	---	---	< 0.06	---	< 0.06	---	---	---	---	0.35	---
Pyrene	2,000	N/A	N/A		---	---	---	---	---	< 0.49	---	---	---	---	---	---	---	---	---	< 0.47	---	< 0.52	---	---	---	---	< 0.50	---

CONSTITUENTS	CT DEEP RSR CRITERIA GA PMC	Res DEC	Res SEH (1.5xDEC)	Soil Boring	SB-36N			SB-36O		SB-36P			SB-36Q		
				Sample Date	9/14/2021	5/14/2021	9/14/2021	9/14/2021	9/14/2021	9/14/202	9/14/2021	9/14/2721	9/14/2021	9/14/2021	9/14/2021
				Sample Number	1643210914-20	1643210914-21	1643210914-22	1643210914-25	1643210914-26	1643210914-28	1643210914-29	1643210914-30	1643210914-31	1643210914-32	1643210914-33
				Sample Depth (feet)	0-2	2-4	4-6	0-2	2-4	0-2	2-4	4-6	0-2	2-4	4-6
PAHs (ug/kg)															
2-Methylnaphthalene	[640]	[270,000]	4050000		< 280	< 270	< 280	< 260	< 290	< 260	920	< 320	< 260	< 2600	< 2600
Acenaphthene	[8,400]	[1,000,000]	15000000		< 280	< 270	< 280	< 260	< 290	< 260	5,900	< 320	< 260	< 2600	< 2600
Acenaphthylene	8,400	1,000,000	15000000		280	1,100	400	< 260	< 290	390	390	370	530	< 2600	< 2600
Anthracene	40,000	1,000,000	15000000		< 280	740	300	< 260	< 290	620	13,000	< 320	350	2,500	< 2600
Benz(a)anthracene	1,000	1,000	15000		< 280	1,800	1,100	310	350	1,900	18,000	730	1,100	12,000	1,000
Benzo(a)pyrene	1,000	1,000	15000		< 280	1,900	1,000	380	430	2,000	14,000	660	1,600	18,000	1,000
Benzo(b)fluoranthene	1,000	1,000	15000		< 280	1,800	940	330	370	2,100	13,000	530	1,300	17,000	1,100
Benzo(ghi)perylene	[1,000]	[8,400]	126000		< 280	1,600	830	410	360	1,900	4,900	370	1,000	11,000	< 1000
Benzo(k)fluoranthene	1,000	8,400	126000		< 280	1,800	1,000	360	340	1,800	11,000	590	1,000	16,000	1,100
Chrysene	[1,000]	[84,000]	1260000		< 280	2,100	1,200	400	430	2,100	18,000	850	1,300	14,000	1,400
Dibenz(a,h)anthracene	[1,000]	[1,000]	15000		< 280	360	< 280	< 260	< 290	300	1,900	< 320	< 260	2,700	< 1000
Fluoranthene	5,600	1,000,000	15000000		340	3,900	1,900	660	590	4,900	69,000	1,400	2,500	38,000	< 2600
Fluorene	5,600	1,000,000	15000000		< 280	< 270	< 280	< 260	< 290	< 0.06	7,100	< 320	< 260	< 2600	< 2600
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	15000		< 280	1,400	620	290	370	1,100	6,200	380	920	12,000	< 1000
Naphthalene	5,600	1,000,000	15000000		< 280	< 270	< 280	< 260	< 290	< 260	1,400	< 320	< 260	< 2600	< 2600
Phenanthrene	4,000	1,000,000	15000000		< 280	1,100	520	310	< 290	1,900	67,000	400	880	13,000	< 2600
Pyrene	4,000	1,000,000	15000000		370	4,000	2,000	720	730	4,400	52,000	1,500	2,800	30,000	< 2600
SPLP PAHs (ug/L)	70xGWPC														
2-Methylnaphthalene	280	N/A	N/A		---	< 0.52	---	---	---	---	< 0.51	---	---	---	---
Acenaphthene	4,200	N/A	N/A		---	< 0.52	---	---	---	---	< 0.51	---	---	---	---
Acenaphthylene	4,200	N/A	N/A		---	< 0.31	---	---	---	---	< 0.30	---	---	---	---
Anthracene	20,000	N/A	N/A		---	< 0.52	---	---	---	---	< 0.51	---	---	---	---
Benz(a)anthracene	0.6	N/A	N/A		---	< 0.05	---	---	---	---	< 0.05	---	---	---	---
Benzo(a)pyrene	2	N/A	N/A		---	< 0.21	---	---	---	---	< 0.20	---	---	---	---
Benzo(b)fluoranthene	0.8	N/A	N/A		---	< 0.07	---	---	---	---	< 0.07	---	---	---	---
Benzo(ghi)perylene	4.8	N/A	N/A		---	< 0.49	---	---	---	---	< 0.48	---	---	---	---
Benzo(k)fluoranthene	5	N/A	N/A		---	< 0.31	---	---	---	---	< 0.30	---	---	---	---
Chrysene	48	N/A	N/A		---	< 0.52	---	---	---	---	< 0.51	---	---	---	---
Dibenz(a,h)anthracene	1	N/A	N/A		---	< 0.10	---	---	---	---	< 0.10	---	---	---	---
Fluoranthene	2,800	N/A	N/A		---	< 0.52	---	---	---	---	< 0.51	---	---	---	---
Fluorene	2,800	N/A	N/A		---	< 0.52	---	---	---	---	< 0.51	---	---	---	---
Indeno(1,2,3-cd)pyrene	1	N/A	N/A		---	< 0.10	---	---	---	---	< 0.10	---	---	---	---
Naphthalene	2,800	N/A	N/A		---	< 0.52	---	---	---	---	< 0.51	---	---	---	---
Phenanthrene	2,000	N/A	N/A		---	< 0.06	---	---	---	---	0.16	---	---	---	---
Pyrene	2,000	N/A	N/A		---	< 0.52	---	---	---	---	< 0.51	---	---	---	---

Notes:
Bold and Grey shaded cells indicates an exceedance of one or more of the listed standard RSR criteria
Bold and Orange shaded cells indicates a Residential Significant Environmental Hazard condition (1.5x Res DEC)

Res DEC = Residential Direct Exposure Criteria
I/C DEC = Industrial/Commercial Residential Direct Exposure Criteria
GA PMC = GA Pollutant Mobility Criteria
SEH = Significant Environmental Hazard
[Screen Text] = DEEP fast-track approveable additional polluting substances; DEEP approval required

< ## = Not detected above given laboratory reporting limit / Italics indicates laboratory reporting limit exceeds applicable RSR criteria
PAHs = Polynuclear Aromatic Hydrocarbons
ug/kg = micrograms per kilogram
ug/L = micrograms per liter

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Table 4
Summary of Constituents Detected in Soil - AOC-02

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford/Windsor, CT

			AOC-02 - Fill Material on Western Portion of the Site																				
		Sample Location	TP-04	TP-05	TP-06	TP-07	TP-08	TP-13	TP-14	TP-15			TP-16		TP-17	TP-18	MW-02	MW-03	MW-05	SB-14	SB-15	SB-15R	SB-16	
		Sample Depth (feet)	3-9	4-6	3-4.5	0-1	6.5-7.5	0.33-1	0.25-1	0.25-1	3-5	0.25-1	3.5-4.5		2-4	2-4	10-12.4^{DUP}	0-0.8	2-4	0.25-0.75	0-0.5	0-0.75	2.5-3.5	5-6
		Sample Date	4/5/2018	4/5/2018	4/5/2018	4/5/2018	4/5/2018	10/25/2018	10/25/2018	10/25/2018	10/25/2018	10/25/2018	10/25/2018		10/25/2018	10/25/2018	4/6/2018	4/6/2018	10/25/2018	8/17/2020	8/17/2020	8/18/2020	8/17/2020	3/17/2020
		Sample Number	1305180405-08	1305180405-07	1305180405-09	1305180405-10	1305180405-11	1534181025-05	1534181025-06	1534181025-07	1534181025-08	1534181025-09	1534181025-10		1534181025-11	1534181025-12	1305180406-26 /27	1305180406-31	1534181025-65	1305200817-04	1305200817-14	1305200818-25	1305200817-16	1305200817-17
CONSTITUENTS	CT DEEP RSRs Res DEC	CT DEEP RSRs GB PMC																						
Metals, Total (mg/Kg)																								
Arsenic	10	N/A	**2.04**	**2.97**	**4.78**	**10.4**	**5.04**	**1.73**	**2.67**	**7.02**	**120**	**2.8**	**8.47**	< 0.71	**2.17**	**6.14**	**5.07**	**5.7**					**5.15**	**4.14**
Barium	4,700	N/A	**42.4**	**64.4**	**197**	**69.5**	**12.6**	---	---	---	**285**	---	**120**	**15.7**	**9.94**	**52.1**	**81.5**	**9.46**	---	---	---	---	**166**	**100**
Cadmium	34	N/A	<0.38	<0.41	**0.43**	**0.7**	<0.39	---	---	---	**2.77**	---	**0.79**	< 0.56	< 0.35	<0.41	<0.37	<0.33	---	---	---	---	**1.48**	**1.05**
Chromium	100	N/A	**10.1**	**14.1**	**24.6**	**13.9**	**8.31**	---	---	---	**29.3**	---	**22.9**	**3.61**	**7.03**	**19.6**	**17.7**	**8.35**	---	---	---	---	**25.3**	**19.3**
Lead	400	N/A	**36.7**	**47.3**	**304**	**462**	**2.77**	**23**	**16.1**	**115**	**1,450**	**77.3**	**1,560**	**5.06**	**2.39**	**4.4**	**45.5**	**2.62**	---	---	---	---	**166**	**19.4**
Mercury	20	N/A	**0.03**	<0.03	**0.1**	**0.33**	<0.03	---	---	---	**0.27**	---	**0.37**	< 0.03	< 0.03	<0.05	**0.16**	<0.03	---	---	---	---	**0.34**	**0.03**
Selenium	340	N/A	<1.5	<1.7	<1.4	<1.8	<1.6	---	---	---	< 1.9	---	< 1.7	< 1.4	< 1.4	<1.6	<1.5	<1.3	---	---	---	---	< 1.6	< 1.5
Silver	340	N/A	<0.38	<0.41	<0.35	<0.45	<0.39	---	---	---	< 0.48	---	< 0.42	< 0.36	< 0.35	<0.41	<0.37	<0.33	---	---	---	---	< 0.40	< 0.38
CT ETPH (mg/Kg)																								
Ext. Petroleum H.C. (C9-C36)	500	2,500	**440**	---	**510**	**76**	---	---	---	---	< 330	---	<60	< 51	< 53	<63	---	<53	---	---	---	---	---	---
PCBs (ug/Kg)																								
Total PCBs	1,000	5**	<360	<390	<380	<450	---	---	---	---	< 440	---	< 400	---	---	< 420	---	---	---	---	---	---	---	---
VOCs (ug/Kg)																								
Naphthalene	1,000,000	56,000	<4.7	---	**13**	<400	---	---	---	---	**320**	---	< 500	---	---	<5.7	<4.5	---	---	---	---	---	---	---
PAHs (ug/Kg)																								
1-Methylnaphthalene	[270,000]	[5,500]	<250	<160	<270	<310	<250	---	---	---	**1,000**	---	< 280	< 240	< 250	<170	<150	<250	---	---	---	---	<260	<270
Acenaphthene	[1,000,000]	[84,000]	<250	<160	<270	<310	<250	---	---	---	**960**	---	< 280	< 240	< 250	<170	**250**	<250	---	---	---	---	< 260	< 270
Acenaphthylene	1,000,000	84,000	<250	<160	**490**	<310	<250	---	---	---	**1,500**	---	< 280	< 240	< 250	<170	**490**	<250	---	---	---	---	< 260	< 270
Anthracene	1,000,000	400,000	<250	<160	**650**	<310	<250	---	---	---	**1,900**	---	< 280	< 240	< 250	<170	**710**	<250	---	---	---	---	< 260	< 270
Benz(a)anthracene	1,000	1,000	**290**	**500**	**1,700**	**390**	<250	---	---	---	**5,700**	---	< 280	< 240	< 250	<170	**4,400**	<250	---	---	---	---	< 260	< 270
Benzo(a)pyrene	1,000	1,000	**320**	**570**	**1,900**	**390**	<250	---	---	---	**5,000**	---	< 280	< 240	< 250	<170	**5,700**	<250	---	---	---	---	< 260	< 270
Benzo(b)fluoranthene	1,000	1,000	**290**	**510**	**1,700**	**490**	<250	---	---	---	**2,300**	---	< 280	< 240	< 250	<170	**4,300**	<250	---	---	---	---	< 260	< 270
Benzo(ghi)perylene	[9,400]	[9,000]	<250	**530**	**1,200**	**510**	<250	---	---	---	**1,900**	---	< 280	< 240	< 250	<170	**4,400**	<250	---	---	---	---	< 260	< 270
Benzo(k)fluoranthene	3,400	1,000	**270**	**290**	**1,300**	**330**	<250	---	---	---	**2,200**	---	< 280	< 240	< 250	<170	**4,700**	<250	---	---	---	---	< 260	< 270
Chrysene	[84,000]	[9,000]	**500**	**400**	**1,900**	**460**	<250	---	---	---	**4,000**	---	< 280	< 240	< 250	<170	**5,000**	<250	---	---	---	---	< 260	< 270
Dibenz(a,h)anthracene	[9,000]	[9,000]	<250	<160	**320**	<310	<250	---	---	---	**540**	---	< 280	< 240	< 250	<170	**950**	<250	---	---	---	---	< 260	< 270
Fluoranthene	1,000,000	56,000	**340**	**580**	**3,100**	**350**	<250	---	---	---	**5,700**	---	< 280	< 240	< 250	<170	**5,300**	<250	---	---	---	---	**290**	**290**
Fluorene	1,000,000	56,000	<250	<160	**510**	<310	<250	---	---	---	**2,500**	---	< 280	< 240	< 250	<170	**260**	<250	---	---	---	---	< 260	< 270
Indeno(1,2,3-c,d)pyrene	[9,000]	[9,000]	<250	**400**	**1,200**	**310**	<250	---	---	---	**1,900**	---	< 280	< 240	< 250	<170	**5,700**	<250	---	---	---	---	< 260	< 270
Naphthalene	1,000,000	56,000	<250	<160	<270	<310	<250	---	---	---	**1,100**	---	< 280	< 240	< 250	<170	<150	<250	---	---	---	---	**560**	**290**
Phenanthrene	1,000,000	40,000	<250	**210**	**1,600**	<310	<250	---	---	---	**10,000**	---	< 280	< 240	< 250	<170	**5,300**	<250	---	---	---	---	< 260	**250**
Pyrene	1,000,000	40,000	**360**	**630**	**2,500**	**470**	<250	---	---	---	**8,500**	---	< 280	< 240	< 250	<170	**7,700**	<250	---	---	---	---	**500**	**350**
Pesticides (ug/Kg)																								
4,4'-DDD	[1,800]	[20]	<3.6	---	**12**	<8.6	<7.2	< 6.7	< 7.2	**6.9**	< 8.9	< 7.0	**34**	< 6.7	< 7.1	<8.3	<7.3	<7.2	< 6.9	< 20	**15**	< 7.6	< 8.3
4,4'-DDE	[1,800]	[20]	<3.6	---	<7.7	**26**	<7.2	< 6.7	< 7.2	**5.3**	< 8.9	< 7.0	**36**	< 6.7	< 7.1	<8.3	**14**	<7.2	< 6.9	**22**	**23**	< 7.6	< 8.7
4,4'-DDT	[1,800]	[20]	**3.3**	---	<7.7	**50**	<7.2	< 6.7	< 7.2	**4.1**	< 8.9	< 7.0	**13**	< 6.7	< 7.1	<8.3	**9.3**	<7.2	< 6.9	**13**	**36**	< 7.6	< 7.7
Aldrin	40	10	<3.6	---	<4.0	<8.6	<7.2	< 3.3	< 3.6	< 3.5	< 4.4	< 3.5	< 4.0	< 3.4	< 3.6	<8.3	<7.3	<3.6	< 3.5	**13**	< 3.8	< 3.8	< 3.8
Chlordane	490	66	<18	---	<38	**210**	<36	< 33	< 36	< 35	< 44	< 35	< 40	< 34	< 36	<42	<37	<36	< 35	**100**	**230**	< 38	< 38
Dieldrin	38	7	<1.8	---	<3.8	**5.6**	<3.6	< 3.3	< 3.6	< 3.5	< 4.4	< 3.5	< 4.0	< 3.4	< 3.6	< 4.1	< 3.7	<3.6	< 3.5	**19**	**12**	< 3.8	< 3.8
Endosulfan I	[41,000]	[840]	<3.6	---	<7.7	**15**	<7.2	< 6.7	< 7.2	< 7.0	< 8.9	< 7.0	< 8.0	< 6.7	< 7.1	<8.3	<7.3	<7.2	< 6.9	< 6.7	< 7.6	< 7.6	< 7.7
Heptachlor	140	13	<3.6	---	<7.7	**9.4**	<7.2	< 6.7	< 7.2	< 7.0	< 8.9	< 7.0	< 8.0	< 6.7	< 7.1	<8.3	<7.3	<7.2	< 6.9	**12**	**14**	< 7.6	< 7.7
Heptachlor epoxide	57	20	<3.6	---	<7.7	**23**	<7.2	< 6.7	< 7.2	< 7.0	< 8.9	< 7.0	< 8.0	< 6.7	< 7.1	<8.3	<7.3	<7.2	< 6.9	**9.4**	**19**	< 7.6	< 7.7

Notes:
mg = milligram; kg = kilogram; L = Liter; µg = microgram
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
NE = Not established
ND = Not detected
[Green Text] = DEEP fast-track approvable additional polluting substances; DEEP approval required
0.25-2^{DUP} - - indicates a duplicate sample was collected; the higher results of the two samples was reported
Bold indicates a detection
Bold and highlighted cells indicate concentrations of one or more of the listed criteria
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons; PCBs = Polychlorinated Biphenyls
** Pollutant Mobility Criteria units for PCBs are mg/L

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Table 5
Summary of Constituents Detected in Soil - AOC-03

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			AOC-03 - Material Stockpiles							
		Stockpile ID	Stockpile A		Stockpile B	Stockpiles H/I, K	Stockpile I	Stockpile K	Stockpile V	Stockpile W
		Sample Location	SS-03	---	---	---	SS-01	---	---	---
		Sample Date	4/5/2018	8/17/2020	10/24/2018	8/17/2020	4/5/2018	10/23/2018	10/24/2018	3/5/2021
		Sample Number	1305180405-14	1305200817-22	1534181024-16	1305200817-21	1305180405-12	1534181023-13	1534181024-17	1305210305-04
CONSTITUENTS	CT DEEP RSRs Res DEC	CT DEEP RSRs GB PMC								
Metals, Total (mg/Kg)										
Arsenic	10	N/A	**22.7**	**4.18**	---	**24**	**6.66**	**4.44**	---	**3.47**
Barium	4,700	N/A	**189**	**157**	---	**175**	**228**	**118**	---	**146**
Cadmium	34	N/A	<0.40	**2.32**	---	**0.83**	**2.71**	**1.12**	---	**1.33**
Chromium	100	N/A	**9.95**	**17.2**	---	**9.52**	**16.2**	**26.7**	---	**23.2**
Lead	400	N/A	**33.7**	**291**	---	**36.5**	**494**	**125**	---	**63.3**
Mercury	20	N/A	**11.5**	**0.21**	---	**12.4**	**0.87**	**0.09**	---	<0.09
Selenium	340	N/A	<1.6	< 1.4	---	< 1.4	<1.7	< 1.7	---	<1.8
Silver	340	N/A	<0.40	< 0.35	---	**0.54**	<0.43	< 0.42	---	<0.46
CT ETPH (mg/Kg)										
Ext. Petroleum H.C. (C9-C36)	500	2,500	<88	**520**	---	< 50	---	< 340	---	<350
PCBs (ug/Kg)										
Total PCBs	1,000	5**	<580	<340	< 330	<330	---	< 440	< 340	<470
VOCs (ug/Kg)										
Total VOCs	Varies	Varies	---	BDL	---	BDL	---	BDL	---	BDL
PAHs (ug/Kg)										
Acenaphthylene	1,000,000	84,000	<270	**580**	---	< 230	**1,300**	< 310	---	**410**
Anthracene	1,000,000	400,000	<270	**450**	---	< 230	**2,600**	< 310	---	**570**
Benz(a)anthracene	1,000	1,000	**560**	**1,400**	---	< 230	**8,400**	**570**	---	**2,700**
Benzo(a)pyrene	1,000	1,000	**530**	**2,500**	---	< 230	**6,200**	**710**	---	**2,900**
Benzo(b)fluoranthene	1,000	1,000	**510**	**2,000**	---	< 230	**6,800**	**600**	---	**2,500**
Benzo(ghi)perylene	[8,400]	[1,000]	**420**	**5,500**	---	< 230	**3,400**	**1,000**	---	**1,900**
Benzo(k)fluoranthene	8,400	1,000	**500**	**860**	---	< 230	**3,800**	**530**	---	**2,100**
Chrysene	[84,000]	[1,000]	**670**	**1,800**	---	< 230	**7,900**	**660**	---	**2,800**
Dibenz(a,h)anthracene	[1,000]	[1,000]	<270	**410**	---	< 230	**1,400**	< 310	---	**350**
Fluoranthene	1,000,000	56,000	**1100**	**2,900**	---	< 230	**17,000**	**720**	---	**4,600**
Fluorene	1,000,000	56,000	<270	< 240	---	< 230	**970**	< 310	---	<330
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	**390**	**1,800**	---	< 230	**3,900**	**640**	---	**2,100**
Phenanthrene	1,000,000	40,000	**860**	**710**	---	< 230	**9,200**	< 310	---	**2,100**
Pyrene	1,000,000	40,000	**1,300**	**3,000**	---	< 230	**12,000**	**820**	---	**3,900**
Pesticides (ug/Kg)										
4,4' -DDD	[1,800]	[20]	<12	---	---	---	**62**	< 8.9	---	<9.4
4,4' -DDE	[1,800]	[20]	<12	---	---	---	**210**	< 8.9	---	<9.4
4,4' -DDT	[1,800]	[20]	<12	---	---	---	**1,500**	< 8.9	---	<9.4
Chlordane	490	66	<58	---	---	---	**540**	< 44	---	**74**
Dieldrin	38	7	<5.8	---	---	---	**14**	< 4.4	---	<4.7
Heptachlor	140	13	<12	---	---	---	<8.4	< 8.9	---	<9.4
Heptachlor epoxide	67	20	<12	---	---	---	<20	< 8.9	---	<9.4
Chlorinated Herbicides (ug/Kg)										
2,4,5-T	NE	NE	---	---	---	---	---	< 110	---	---
2,4,5-TP (Silvex)	NE	NE	---	---	---	---	---	< 110	---	---
2,4-D	680,000	14,000	---	---	---	---	---	< 230	---	---
2,4-DB	NE	NE	---	---	---	---	---	< 2300	---	---
Dalapon	NE	NE	---	---	---	---	---	< 110	---	---
Dicamba	[500,000]	[42,000]	---	---	---	---	---	< 110	---	---
Dichloroprop	[240,000]	[5,000]	---	---	---	---	---	< 230	---	---
Dinoseb	NE	NE	---	---	---	---	---	< 230	---	---

Notes:
Only sampling results from Stockpiles remaining on Site in March 2021 are depicted on the Table.
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
[Green Text] = DEEP fast-track approveable additional polluting substances; DEEP approval required
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons; PCBs = Polychlorinated Biphenyls
** Pollutant Mobility Criteria units for PCBs are mg/L

mg = milligram; kg = kilogram; L = Liter; ug = microgram
NE = Not established
BDL = Below detection limits
*Stockpiles F, G, H, J, L, M, N, O, P, Q, R, S, T, and U
(observed during initial investigations) were no longer present on Site in March 2021

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Table 6
Summary of Constituents Detected in Soil - AOC-04

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			AOC-04 - Historical Fill Material	
Sample Location			MW-04	MW-06
Sample Depth (feet)			0-0.5	0-1
Sample Date			4/6/2018	10/25/2018
Sample Number			1305180406-33	1534181025-66
CONSTITUENTS	CT DEEP RSRs DEC RES	CT DEEP RSRs GB PMC		
Metals, Total (mg/Kg)				
Arsenic	10	N/A	**4.80**	**5.68**
Barium	4,700	N/A	**63.1**	---
Cadmium	34	N/A	<0.41	---
Chromium	100	N/A	**25.8**	---
Lead	400	N/A	**18.3**	**11**
Mercury	20	N/A	**0.07**	---
Selenium	340	N/A	<1.6	---
Silver	340	N/A	<0.41	---
PAHs (ug/Kg)				
Acenaphthene	[1,000,000]	[84,000]	<170	---
Acenaphthylene	1,000,000	84,000	<170	---
Anthracene	1,000,000	400,000	<170	---
Benzo(a)anthracene	1,000	1,000	<170	---
Benzo(a)pyrene	1,000	1,000	<170	---
Benzo(b)fluoranthene	1,000	1,000	<170	---
Benzo(ghi)perylene	[8,400]	[1,000]	<170	---
Benzo(k)fluoranthene	8,400	1,000	<170	---
Chrysene	[84,000]	[1,000]	<170	---
Dibenz(a,h)anthracene	[1,000]	[1,000]	<170	---
Fluoranthene	1,000,000	56,000	<170	---
Fluorene	1,000,000	56,000	<170	---
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	<170	---
Naphthalene	1,000,000	56,000	<170	---
Phenanthrene	1,000,000	40,000	<170	---
Pyrene	1,000,000	40,000	<170	---
Pesticides By SW8081B (ug/Kg)				
4,4' -DDD	[1,800]	[20]	<8.3	<8.7
4,4' -DDE	[1,800]	[20]	**70**	<8.7
4,4' -DDT	[1,800]	[20]	**73**	<8.7
Aldrin	40	10	<8.3	<4.4
Chlordane	490	66	**68**	<44
Dieldrin	38	7	<4.1	<4.4
Endosulfan I	[41,000]	[840]	<8.3	<8.7
Heptachlor	140	13	<8.3	<8.7
Heptachlor epoxide	67	20	**20**	<8.7
Chlorinated Herbicides (ug/Kg)				
2,4,5-T	NE	NE	---	<110
2,4,5-TP (Silvex)	NE	NE	---	<110
2,4-D	680,000	14,000	---	<220
2,4-DB	NE	NE	---	<2200
Dalapon	NE	NE	---	<110
Dicamba	[500,000]	[42,000]	---	<110
Dichloroprop	[240,000]	[5,000]	---	<220
Dinoseb	NE	NE	---	<220

Notes:
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
[Green Text] = DEEP fast-track approveable additional polluting substances; DEEP approval required
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons; PCBs = Polychlorinated Biphenyls
--- = Not analyzed
** Pollutant Mobility Criteria units for PCBs are mg/L

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Table 7
Summary of Constituents Detected in Soil - AOC-05

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			AOC 05 - Pesticide Use (Sitewide)																		
		Sample Location	SS-04	SS-05	SS-06	SS-07	SS-08	SS-09	SS-10	SS-11		SS-12	SS-13	SS-14	SS-15		SS-16	SS-17		SS-18	SS-19
		Sample Depth (feet)	0-0.3	0-0.5	0-0.3	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0.75-1	0-0.5	0-0.5	0-0.5	0-0.5	0.75-1	0-0.5	0-0.5	0-0.5[DUP]	0-0.5	0-0.5
		Sample Date	4/5/2018	4/5/2018	4/5/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018
		Sample Number	1305180405-15	1305180405-16	1305180405-17	1534181024-27	1534181024-29	1534181024-30	1534181024-32	1534181024-33	1534181024-34	1534181024-35	1534181024-36	1534181024-38	1534181024-39	1534181024-40	1534181024-41	1534181024-42	1534181024-44	1534181024-45	1534181024-46
CONSTITUENTS	CT DEEP RSRs Res DEC	GB PMC																			
Metals, Total (mg/Kg)																					
Arsenic	10	N/A	---	---	---	**4.75**	**6.7**	**3.55**	**8.16**	**3.65**	---	**4.81**	**4.6**	**9.74**	**7.06**	---	**7.51**	**6.14**	**6.25**	**4.94**	**5.54**
Lead	400	N/A	---	---	---	**23.6**	**30.8**	**32.7**	**25.3**	**37.7**	---	**33.6**	**19.4**	**28.9**	**49.9**	---	**42.8**	**34.9**	**34.8**	**28.6**	**26.2**
Pesticides (ug/Kg)																					
4,4'-DDD	[1,800]	[20]	**10**	<8.8	<8.6	< 7.7	< 8.0	< 8.1	< 8.2	< 8.4	< 8.6	< 7.7	< 8.0	< 8.1	< 8.5	< 8.3	< 8.3	< 8.5	< 8.4	< 8.3	< 8.2
4,4'-DDE	[1,800]	[20]	**120**	**130**	**210**	**92**	**100**	**66**	**56**	**160**	**72**	**71**	**65**	**83**	**140**	**130**	**86**	**72**	**84**	**52**	**59**
4,4'-DDT	[1,800]	[20]	**82**	**190**	**220**	**100**	**150**	**72**	**71**	**200**	**90**	**79**	**100**	**120**	**150**	**130**	**98**	**80**	**96**	**76**	**94**
Chlordane	490	66	**30**	**69**	<45	**61**	< 66	< 40	< 41	**51**	< 43	< 39	**43**	**50**	< 45	< 42	< 42	< 42	< 42	< 42	< 41
Dieldrin	38	7	<4.3	<4.4	<4.3	< 3.8	< 4.0	< 4.0	< 4.1	< 4.2	< 4.3	< 3.9	< 4.0	< 4.0	< 4.3	< 4.2	< 4.2	< 4.2	< 4.2	< 4.2	< 4.1
Endosulfan I	[41,000]	[840]	<8.6	<8.8	<8.6	< 7.7	< 8.0	< 8.1	< 8.2	< 8.4	< 8.6	< 7.7	< 8.0	< 8.1	< 8.5	< 8.5	< 8.3	< 8.5	< 8.4	< 8.3	< 8.2
Heptachlor	140	13	<8.6	<8.8	<8.6	< 7.7	< 8.0	< 8.1	< 8.2	< 8.4	< 8.6	< 7.7	< 8.0	< 8.1	< 8.5	< 8.5	< 8.3	< 8.5	< 8.4	< 8.3	< 8.2
Heptachlor epoxide	67	20	**13**	**12**	**11**	**13**	< 20	< 8.1	< 8.2	< 8.4	< 8.6	< 7.7	**9.1**	**19**	< 8.5	< 8.5	< 8.3	< 8.5	< 8.4	< 8.3	< 8.2
Chlorinated Herbicides (ug/Kg)																					
2,4,5-T	NE	NE	<110	<110	<110	< 96	---	< 100	---	< 100	---	---	< 100	---	< 110	---	---	< 110	< 110	---	< 100
2,4,5-TP (Silvex)	NE	NE	<110	<110	<110	< 96	---	< 100	---	< 100	---	---	< 100	---	< 110	---	---	< 110	< 110	---	< 100
2,4-D	680,000	14,000	<220	<220	<220	< 190	---	< 200	---	< 210	---	---	< 200	---	< 210	---	---	< 210	< 220	---	< 200
2,4-DB	NE	NE	<2200	<2200	<2200	< 1900	---	< 2000	---	< 2100	---	---	< 2000	---	< 2100	---	---	< 2100	< 2200	---	< 2000
Dalapon	NE	NE	<110	<110	<110	< 96	---	< 100	---	< 100	---	---	< 100	---	< 110	---	---	< 110	< 110	---	< 100
Dicamba	[500,000]	[42,000]	<110	<110	<110	< 96	---	< 100	---	< 100	---	---	< 100	---	< 110	---	---	< 110	< 110	---	< 100
Dichloroprop	[240,000]	[5,000]	<220	<220	<220	< 190	---	< 200	---	< 210	---	---	< 200	---	< 210	---	---	< 210	< 220	---	< 200
Dinoseb	NE	NE	<220	<220	<220	< 190	---	< 200	---	< 210	---	---	< 200	---	< 210	---	---	< 210	< 220	---	< 200

Notes:
mg = milligram, kg = kilogram, L = Liter, ug = microgram
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
NE = Not established
--- = Not analyzed
[Green Text] = DEEP fast-track additional polluting substances; DEEP approval required
0.25-2[DUP] - indicates duplicate sample collected; the higher results of the two is reported
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons;
PCBs = Polychlorinated Biphenyls
** Pollutant Mobility Criteria units for PCBs are mg/L

FUSS & O'NEILL

Table 7
Summary of Constituents Detected in Soil - AOC-05

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			AOC 05 - Pesticide Use (Sitewide)																
Sample Location:			SS-20	SS-21	SS-22	SS-23		SS-24	SS-25	SS-26	SS-30		SS-31	SS-32		SS-33	SS-37	SS-38
Sample Depth (feet):			0-0.5	0-0.5	0-0.5	0-0.5	0.75-1	0-0.5	0-0.5	0-0.5	0.0-0.5[DUP]	1.5-2	0-0.5	0-0.5	1.5-2	0-0.5	0-0.5	0-0.5
Sample Date:			10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	10/24/2018	3/1/2021	3/5/2021	3/1/2021	3/1/2021	3/5/2021	3/1/2021	3/5/2021	3/5/2021
Sample Number:			1534181024-48	1534181024-49	1534181024-51	1534181024-52	1534181024-53	1534181024-54	1534181024-55	1534181024-57	1305210301-01/-02	1305210305-18	1305210301-03	1305210301-04	1305210305-16	1305210301-05	1205210305-10	1305210305-12
CONSTITUENTS	CT DEEP RSRs Res DEC	GB PMC																
Metals, Total (mg/Kg)																		
Arsenic	10	N/A	**5.85**	**4.75**	**7.61**	**7.27**	---	**6.02**	**7.85**	**5.43**	---	---	---	---	---	---	---	---
Lead	400	N/A	**30.6**	**25.6**	**49.1**	**43.8**	---	**47.6**	**48.1**	**30.2**	---	---	---	---	---	---	---	---
			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Pesticides (ug/Kg)																		
4,4' - DDD	[1,800]	[20]	< 8.4	< 8.2	**13**	< 8.5	< 8.5	< 8.7	< 8.4	< 8.4	<9.0	<9.6	<9.1	<9.1	<9.2	<9.4	<8.4	<8.7
4,4' - DDE	[1,800]	[20]	**33**	**52**	**210**	**130**	**10**	**13**	**87**	**44**	**85**	<9.6	**47**	**50**	<9.2	**26**	**56**	**30**
4,4' - DDT	[1,800]	[20]	**84**	**74**	**210**	**130**	**92**	**12**	**82**	**37**	**83**	<9.6	**47**	**70**	<9.2	**37**	**16**	**30**
Chlordane	490	66	< 42	< 41	< 43	< 42	< 42	< 44	**51**	< 42	<45	<48	<45	<45	<46	<47	<42	<44
Dieldrin	38	7	< 4.2	< 4.1	< 4.3	< 4.2	< 4.2	< 4.4	< 4.2	< 4.2	<4.5	<4.8	<4.5	<4.5	<4.6	<4.7	<4.2	<4.4
Endosulfan I	[41,000]	[840]	< 8.4	< 8.2	< 8.7	< 8.5	< 8.5	< 8.7	< 8.4	< 8.4	<9.0	<9.6	<9.1	<9.1	<9.2	<9.4	<8.4	<8.7
Heptachlor	140	13	< 8.4	< 8.2	< 8.7	< 8.5	< 8.5	< 8.7	< 8.4	< 8.4	<9.0	<9.6	<9.1	<9.1	<9.2	<9.4	<8.4	<8.7
Heptachlor epoxide	67	20	**14**	< 8.2	< 8.7	< 8.5	< 8.5	< 8.7	< 8.4	< 8.4	**13**	<9.6	<9.1	<9.1	<9.2	<9.4	<8.4	<8.7
			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chlorinated Herbicides (ug/Kg)																		
2,4,5-T	NE	NE	---	< 100	---	< 110	---	---	< 110	---	---	---	---	---	---	---	---	---
2,4,5-TP (Silvex)	NE	NE	---	< 100	---	< 110	---	---	< 110	---	---	---	---	---	---	---	---	---
2,4-D	680,000	14,000	---	< 200	---	< 210	---	---	< 220	---	---	---	---	---	---	---	---	---
2,4-DB	NE	NE	---	< 2000	---	< 2100	---	---	< 2200	---	---	---	---	---	---	---	---	---
Dalapon	NE	NE	---	< 100	---	< 110	---	---	< 110	---	---	---	---	---	---	---	---	---
Dicamba	[500,000]	[42,000]	---	< 100	---	< 110	---	---	< 110	---	---	---	---	---	---	---	---	---
Dichloroprop	[240,000]	[5,000]	---	< 200	---	< 210	---	---	< 220	---	---	---	---	---	---	---	---	---
Dinoseb	NE	NE	---	< 200	---	< 210	---	---	< 220	---	---	---	---	---	---	---	---	---

Notes:
mg = milligram, kg = kilogram, L = Liter, ug = microgram
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
NE = Not established
--- = Not analyzed
[Green Text] = DEEP fast-track additional polluting substances; DEEP approval required
0.25-2[DUP] = indicates duplicate sample collected; the higher results of the two is reported
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons;
PCBs = Polychlorinated Biphenyls
** Pollutant Mobility Criteria units for PCBs are mg/L

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Table 8
Summary of Constituents Detected in Soil - AOC-06

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			AOC-06 - Drums & Misc. Containers/Surficial Oil Staining				
Sample Location			SB-03	SB-04	SB-11	SB-12	SB-13
Sample Depth (feet)			0.5-1.5	0.1-0.9	0.25-1	0-1	0.2-1.2
Sample Date			4/6/2018	4/6/2018	8/17/2020	8/17/2020	8/17/2020
Sample Number			1305180406-28	1305180406-29	1305200817-01	1305200817-02	1305200817-03
CONSTITUENTS	CT DEEP RSRs DEC RES	CT DEEP RSRs GB PMC					
Metals, Total (mg/Kg)							
Arsenic	10	N/A	**3.21**	**6.74**	**2.9**	**1.88**	**4.83**
Barium	4,700	N/A	**69.0**	**55.9**	**65**	**64.2**	**75.3**
Cadmium	34	N/A	<0.39	<0.39	**0.78**	**0.69**	**0.95**
Chromium	100	N/A	**16.5**	**16.5**	**15.9**	**13.8**	**20.5**
Lead	400	N/A	**26.0**	**40.3**	**103**	**21.7**	**34.9**
Mercury	20	N/A	<0.03	**0.47**	**0.14**	< 0.03	< 0.03
Selenium	340	N/A	<1.5	<1.6	< 1.3	< 1.4	< 1.4
Silver	340	N/A	<0.39	<0.39	< 0.31	< 0.36	< 0.36
Metals, SPLP (mg/L)							
Arsenic	N/A	0.5	<0.004	---	---	---	---
Barium	N/A	10	**0.017**	---	---	---	---
Cadmium	N/A	0.05	<0.005	---	---	---	---
Chromium	N/A	0.5	<0.010	---	---	---	---
Lead	N/A	0.02	<0.0005	---	---	---	---
Mercury	N/A	0.15	**0.012**	---	---	---	---
Selenium	N/A	0.5	<0.020	---	---	---	---
Silver	N/A	0.36	<0.010	---	---	---	---
VOCs (ug/Kg)							
Naphthalene	1,000,000	56,000	<5.5	---	< 270	< 300	< 4.6
CT ETPH (mg/Kg)							
Ext. Petroleum H.C. (C9-C36)	500	2,500	<59	---	---	---	---
PCBs (ug/Kg)							
Total PCBs	1,000	5**	<390	---	---	---	---
PAHs (ug/Kg)							
Benzo(a)anthracene	1,000	1,000	<160	**420**	**7,300**	**1,900**	**360**
Benzo(a)pyrene	1,000	1,000	<160	**410**	**8,500**	**2,200**	**380**
Benzo(b)fluoranthene	1,000	1,000	<160	**400**	**7,400**	**1,600**	**350**
Benzo(ghi)perylene	[8,400]	[1,000]	<160	**340**	**5,200**	**1,500**	**270**
Benzo(k)fluoranthene	8,400	1,000	<160	**410**	**6,500**	**1,400**	**290**
Chrysene	[84,000]	[1,000]	<160	**470**	**7,400**	**1,900**	**370**
Dibenz(a,h)anthracene	[1,000]	[1,000]	<160	<160	**1,200**	< 1100	< 250
Fluoranthene	1,000,000	56,000	<160	**790**	**16,000**	**2,600**	**670**
Fluorene	1,000,000	56,000	<160	<160	< 2500	< 2300	< 250
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	<160	**400**	**5,700**	**1,400**	**260**
Naphthalene	1,000,000	56,000	<160	<160	< 2500	< 2300	< 250
Phenanthrene	1,000,000	40,000	<160	**230**	**6,100**	< 2300	**410**
Pyrene	1,000,000	40,000	<160	**720**	**15,000**	**3,400**	**610**
Pesticides By SW8081B (ug/Kg)							
4,4' -DDD	[1,800]	[20]	<7.8	<7.8	< 7.0	< 6.8	< 7.4
4,4' -DDE	[1,800]	[20]	<7.8	<7.8	< 7.0	< 6.8	< 7.4
4,4' -DDT	[1,800]	[20]	<7.8	<7.8	< 7.0	< 6.8	< 7.4
Aldrin	40	10	<7.8	<7.8	< 7.0	< 3.4	< 3.7
Chlordane	490	66	<39	<39	< 66	< 34	< 37
Dieldrin	38	7	<3.9	<3.9	< 7.0	< 3.4	< 3.7
Endosulfan I	[41,000]	[840]	<7.8	<7.8	< 35	< 6.8	< 7.4
Heptachlor	140	13	<7.8	<7.8	< 13	< 6.8	< 7.4
Heptachlor epoxide	67	20	<7.8	<7.8	< 17	< 6.8	< 7.4

Notes:
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
--- = Not analyzed
[Green Text] = DEEP fast-track approveable additional polluting substances; DEEP approval required
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons; PCBs = Polychlorinated Biphenyls
** Pollutant Mobility Criteria units for PCBs are mg/L

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Table 9
Summary of Constituents Detected in Soil - AOC-07

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			AOC-07 - Former Produce Wash Building & Truck Storage						
Sample Location			MW-01	SB-01	SB-02	SB-05	SB-06	SB-07	SB-08
Sample Depth (feet)			10-11.5	6-8	6-8	0.5-2	0.25-2	0.25-2[DUP]	0.25-2
Sample Date			4/6/2018	4/6/2018	4/6/2018	10/25/2018	10/25/2018	10/25/2018	10/25/2018
Sample Number			1305180406-24	1305180406-23	1305180406-25	1534181025-60	1534181025-61	1534181025-62/63	1534181025-64
CONSTITUENTS	CT DEEP RSRs DEC RES	CT DEEP RSRs GB PMC							
Metals, Total (mg/Kg)									
Arsenic	10	N/A	**2.98**	**2.58**	**1.92**	**9.93**	**5.49**	**5.21**	**5.44**
Barium	4,700	N/A	**21.0**	**8.52**	**11.1**	---	---	---	---
Cadmium	34	N/A	<0.40	<0.39	<0.39	---	---	---	---
Chromium	100	N/A	**13.0**	**7.93**	**7.95**	---	---	---	---
Lead	400	N/A	**6.32**	<0.39	**2.05**	**24.3**	**16.7**	**26.4**	**21.3**
Mercury	20	N/A	<0.03	<0.03	<0.03	---	---	---	---
Selenium	340	N/A	<1.6	<1.5	<1.6	---	---	---	---
Silver	340	N/A	<0.40	<0.39	<0.39	---	---	---	---
Metals, SPLP (mg/L)									
Arsenic	N/A	0.5	---	<0.004	---	---	---	---	---
Barium	N/A	10	---	<0.010	---	---	---	---	---
Cadmium	N/A	0.05	---	<0.005	---	---	---	---	---
Chromium	N/A	0.5	---	<0.010	---	---	---	---	---
Lead	N/A	0.02	---	<0.0005	---	---	---	---	---
Mercury	N/A	0.15	---	<0.010	---	---	---	---	---
Selenium	N/A	0.5	---	<0.020	---	---	---	---	---
Silver	N/A	0.36	---	<0.010	---	---	---	---	---
VOCs (ug/Kg)									
Naphthalene	1,000,000	56,000	<280	<7.1	---	---	---	---	---
CT ETPH (mg/Kg)									
Ext. Petroleum H.C. (C9-C36)	500	2,500	<280	<57	---	<56	<54	<56	<56
PCBs (ug/Kg)									
Total PCBs	1,000	5**	<370	<390	---	<380	<370	<380	<370
PAHs (ug/Kg)									
Acenaphthene	[1,000,000]	[84,000]	<150	<150	<160	<270	<250	<260	<260
Acenaphthylene	1,000,000	84,000	<150	<150	<160	<270	<250	<260	<260
Anthracene	1,000,000	400,000	<150	<150	<160	<270	<250	<260	<260
Benzo(a)anthracene	1,000	1,000	**380**	<150	<160	<270	<250	<260	<260
Benzo(a)pyrene	1,000	1,000	**450**	<150	<160	<270	<250	<260	<260
Benzo(b)fluoranthene	1,000	1,000	**340**	<150	<160	<270	<250	<260	<260
Benzo(ghi)perylene	[8,400]	[1,000]	**420**	<150	<160	<270	<250	<260	<260
Benzo(k)fluoranthene	8,400	1,000	**340**	<150	<160	<270	<250	<260	<260
Chrysene	[84,000]	[1,000]	**420**	<150	<160	<270	<250	<260	<260
Dibenz(a,h)anthracene	[1,000]	[1,000]	<150	<150	<160	<270	<250	<260	<260
Fluoranthene	1,000,000	56,000	**670**	<150	<160	<270	<250	<260	<260
Fluorene	1,000,000	56,000	<150	<150	<160	<270	<250	<260	<260
Indeno(1,2,3-cd)pyrene	[1,000]	[1,000]	**460**	<150	<160	<270	<250	<260	<260
Naphthalene	1,000,000	56,000	<150	<150	<160	<270	<250	<260	<260
Phenanthrene	1,000,000	40,000	**420**	<150	<160	<270	<250	<260	<260
Pyrene	1,000,000	40,000	**700**	<150	<160	<270	<250	<260	<260
Pesticides By SW8081B (ug/Kg)									
4,4' -DDD	[1,800]	[20]	<7.3	<7.8	<7.9	---	---	---	---
4,4' -DDE	[1,800]	[20]	<7.3	<7.8	<7.9	---	---	---	---
4,4' -DDT	[1,800]	[20]	<7.3	<7.8	<7.9	---	---	---	---
Aldrin	40	10	<3.7	<3.9	<4.0	---	---	---	---
Chlordane	490	66	<37	<39	<40	---	---	---	---
Dieldrin	38	7	<3.7	<3.9	<4.0	---	---	---	---
Endosulfan I	[41,000]	[840]	<7.3	<7.8	<7.9	---	---	---	---
Heptachlor	140	13	<7.3	<7.8	<7.9	---	---	---	---
Heptachlor epoxide	67	20	<7.3	<7.8	<7.9	---	---	---	---

Notes:
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
--- = Not analyzed
[Green Text] = DEEP fast-track approveable additional polluting substances; DEEP approval required
VOCs = Volatile Organic Compounds; PAHs = Polynuclear Aromatic Hydrocarbons; PCBs = Polychlorinated Biphenyls
** Pollutant Mobility Criteria units for PCBs are mg/L

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Table 10
Summary of Constituents Detected in Concrete Chip Samples

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			Concrete Chip Samples			
	Sample Location		CS-01	CS-02	CS-03	CS-04
	Sample Depth (feet)		0-0.1	0-0.1	0-0.1	0-0.1
	Sample Date		10/25/2018	10/25/2018	10/25/2018	10/25/2018
	Sample Number		1534181025-67	1534181025-68	1534181025-69	1534181025-70
CONSTITUENTS	CT DEEP RSRs Res DEC	CT DEEP RSRs GB PMC				
PCBs (ug/Kg)						
Total PCBs	1,000	5**	<330	<330	**1,800**	<330

Notes:

ug = microgram; kg = kilogram

Res DEC = Residential Direct Exposure Criteria

GB PMC = GB Pollutant Mobility Criteria

NE = Not established

ND = Not detected

[Green Text] = DEEP fast-track approveable additional polluting substances; DEEP approval required

0.25-2^{DUP} - indicates a duplicate sample was collected; the higher results of the two samples was reported

Bold indicates a detection

Bold and highlighted cells indicates an exceedance of one or more of the listed criteria

PCBs = Polychlorinated Biphenyls

** Pollutant Mobility Criteria units for PCBs are mg/L

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Table 11
Groundwater Analytical Results

Riverfront Land, Inc (RLI) Properties
Riverfront Recapture, Inc.
Hartford and Windsor, CT

	Sample Location		MW-01			MW-02	MW-03		MW-04			MW-05		MW-06	
	Sample Date		4/12/2018[DUP]	10/29/2018[DUP]	8/26/2020	4/12/2018	4/12/2018	10/29/2018	4/12/2018	10/29/2018	8/26/2020	10/29/2018	8/26/2020[DUP]	10/29/2018	8/26/2020
	Sample Number		1305180412-35/36	1534181029-71/72	1305200826-03	1305180412-37	1305180412-38	1534181029-74	1305180412-34	1534181029-76	1305200826-05	1534181029-73	1305200826-01/02	1534181029-75	1305200826-04
CONSTITUENTS	CT DEEP RSRs Res VC	CT DEEP RSRs 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	< 0.004	<0.004	< 0.004	<0.004
Barium	NE	[2.2]	**0.075**	**0.045**	**0.062**	**0.077**	**0.112**	**0.196**	**0.014**	**0.019**	**0.015**	**0.120**	**0.120**	**0.015**	**0.017**
Cadmium	NE	0.006	<0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001
Chromium	NE	0.11	<0.001	**0.004**	**0.001**	<0.001	<0.001	< 0.001	<0.001	< 0.001	**0.003**	< 0.001	**0.001**	< 0.001	**0.002**
Mercury	NE	0.0004	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Lead	NE	0.013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	NE	0.05	<0.010	< 0.011	<0.010	<0.010	<0.010	< 0.011	<0.010	< 0.011	<0.010	< 0.011	<0.010	< 0.011	<0.010
Silver	NE	0.012	<0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	<0.001	< 0.001	**0.001**
VOCs (ug/L)															
Total VOCs	Varies	Varies	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PAHs (ug/L)															
Acenaphthene	[30,500]	[150]	<0.05	<0.05	<0.50	<0.05	**0.05**	<0.05	<0.05	<0.05	<0.50	<0.05	<0.50	<0.05	<0.50
Anthracene	{50,000}	1,100,000	<0.05	<0.05	<0.50	<0.05	**0.07**	**0.08**	<0.05	<0.05	<0.50	<0.05	<0.50	<0.05	<0.50
Fluoranthene	NE	3,700	<0.05	<0.05	<0.50	**0.08**	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.50	<0.05	<0.50
Phenanthrene	{50,000}	[14]	**0.05**	<0.05	<0.06	**0.14**	<0.05	<0.05	<0.05	<0.05	<0.06	<0.05	<0.06	<0.05	<0.06
Pyrene	NE	110,000	<0.05	<0.05	<0.50	**0.07**	<0.05	<0.05	<0.05	<0.05	<0.50	<0.05	<0.50	<0.05	<0.50
Pesticides (ug/L)															
4,4'-DDD	[0.05]	NE	<0.052	< 0.050	<0.002	<0.049	<0.053	< 0.050	<0.050	< 0.047	<0.002	< 0.050	<0.050	< 0.050	<0.002
4,4'-DDE	[0.05]	NE	<0.052	< 0.050	<0.002	<0.049	<0.053	< 0.050	<0.050	< 0.047	<0.002	< 0.050	<0.050	< 0.050	<0.002
4,4'-DDT	[0.05]	NE	<0.052	< 0.050	<0.002	<0.049	<0.053	< 0.050	<0.050	< 0.047	<0.002	< 0.050	<0.050	< 0.050	<0.002
Chlordane	0.3	NE	<0.31	< 0.30	<0.020	<0.29	<0.32	< 0.30	<0.30	< 0.28	<0.021	< 0.30	<0.30	< 0.30	<0.020
Heptachlor epoxide	0.05	NE	<0.026	< 0.025	<0.025	<0.025	<0.027	< 0.025	<0.025	< 0.024	<0.026	< 0.025	<0.025	< 0.025	<0.025
Herbicides (ug/L)															
Total Herbicides	Varies	NE	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
{Red text} = draft proposed 2008 criteria for which no other recommendations have been made; DEEP approval required
NE – Criteria not established
BDL = Below detection limits
PAHs = Polynuclear Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds
--- = Not analyzed
MW-01[DUP] - indicates a duplicate sample was collected; the higher results of the two samples was reported

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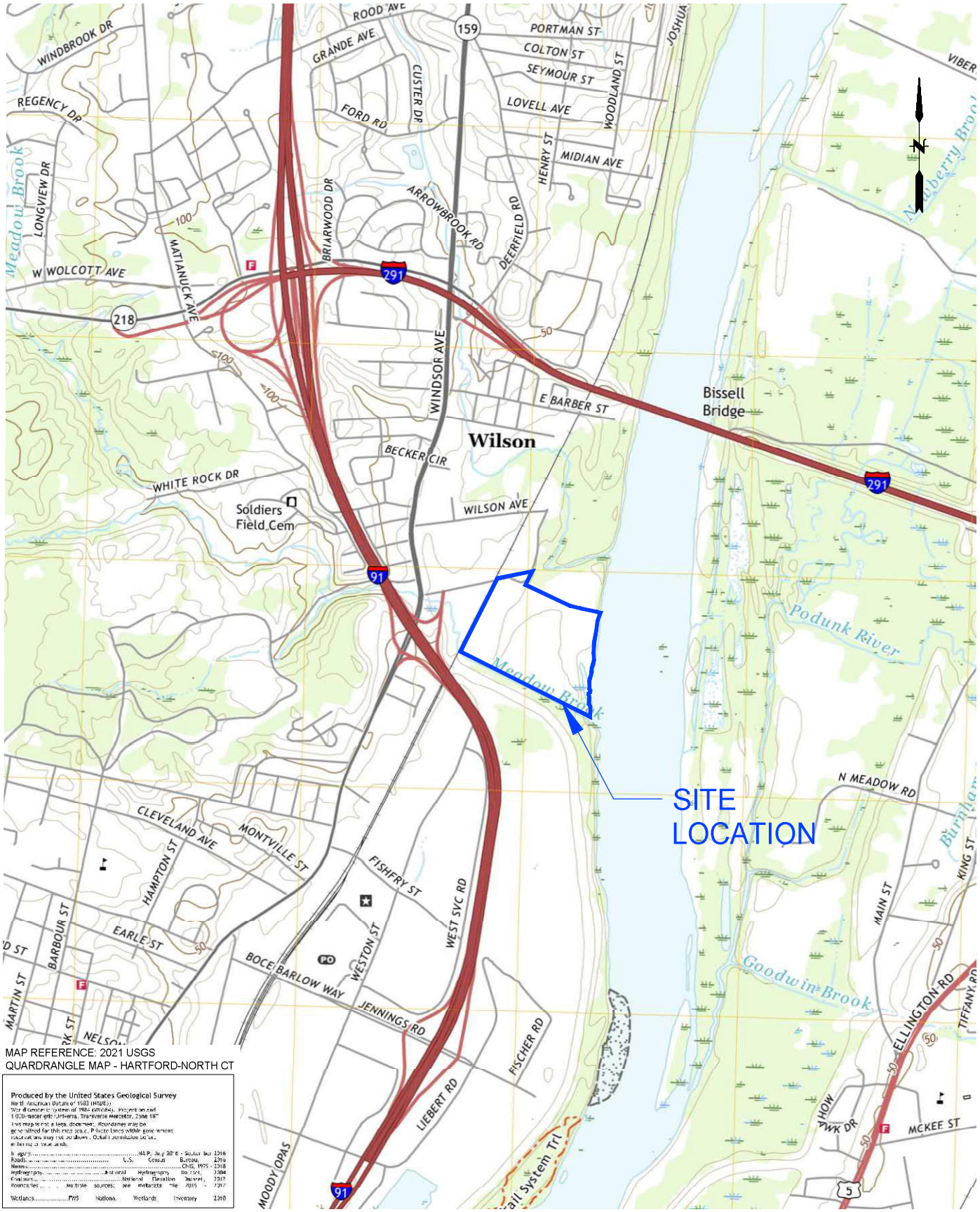
Table 12
Summary of Constituents Detected in Sediment

Riverfront Land, Inc. (RLI) Properties
Riverfront Recapture, Inc.
Hartford Windsor, CT

			Depression/Estuary Sediment Samples		
		Sample Location	SED-01	SED-02	SED-06
		Sample Depth (feet)	0-0.5	0-0.5	0-0.5
		Sample Date	7/22/2020	7/22/2020	7/22/2020
		Sample Number	790200722-1	790200722-02	790200722-06
CONSTITUENTS	CT DEEP RSRs				
	DEC RES	GB PMC			
Metals, Total (mg/Kg)					
Arsenic	10	N/A	**3.9**	**1.73**	**3.2**
Barium	4,700	N/A	**119.0**	**36.8**	**71.3**
Cadmium	34	N/A	**1.75**	**0.82**	**1.35**
Chromium	100	N/A	**32.4**	**15**	**25.1**
Lead	400	N/A	**23.3**	**6.44**	**10.8**
Mercury	20	N/A	<0.04	<0.04	<0.04
Selenium	340	N/A	<2.3	<1.6	<2.1
Silver	340	N/A	<0.58	<0.40	<0.52
CT ETPH (mg/Kg)					
Ext. Petroleum H.C. (C9-C36)	500	2,500	<79	<67	<81
PAHs (ug/Kg)					
PAHs	Varies	Varies	BDL	BDL	BDL
Pesticides By SW8081B (ug/Kg)					
4,4' -DDE	[1,800]	[20]	**3.3**	<1.9	<2.3
SPLP Pesticides (ug/L)					
SPLP Pesticides	Varies	Varies	BDL	BDL	BDL
Chlorinated Herbicides (ug/Kg)					
Chlorinated Herbicides	Varies	Varies	BDL	BDL	BDL

Notes:
Bold indicates a detection
Bold and highlighted cells indicates an exceedance of one or more of the listed criteria
Res DEC = Residential Direct Exposure Criteria
GB PMC = GB Pollutant Mobility Criteria
[Green Text] = DEEP fast-track approveable additional polluting substances; DEEP approval required
ETPH = Extractable Total Petroleum Hydrocarbons; PAHs = Polynuclear Aromatic Hydrocarbons;
SPLP = Synthetic Precipitation Leaching Procedure
mg = milligram; kg = kilogram; L = Liter; ug = microgram
BDL = Below Detection Limit

Figures



MAP REFERENCE: 2021 USGS
QUARDRANGLE MAP - HARTFORD-NORTH CT

Produced by the United States Geological Survey

SCALE:
HORZ.: 1" = 2000'
VERT.:
DATUM:
HORZ.:
VERT.:
0 1000 2000
GRAPHIC SCALE

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SITE LOCATION MAP
RLI PROPERTIES

HARTFORD AND WINDSOR CONNECTICUT

PROJ. No.: 20170277.R30
DATE: DECEMBER 2021

FIGURE 1

File: J:\DWG\P2017\0277\A30\Environmental\Plan\20170277A30_STP01_site loc.dwg Layout: 08.5X11-P Plotted: 2021-12-03 12:29 PM Saved: 2021-12-03 12:28 PM User: SRochelt
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LAYER STATE:
MS VIEW:

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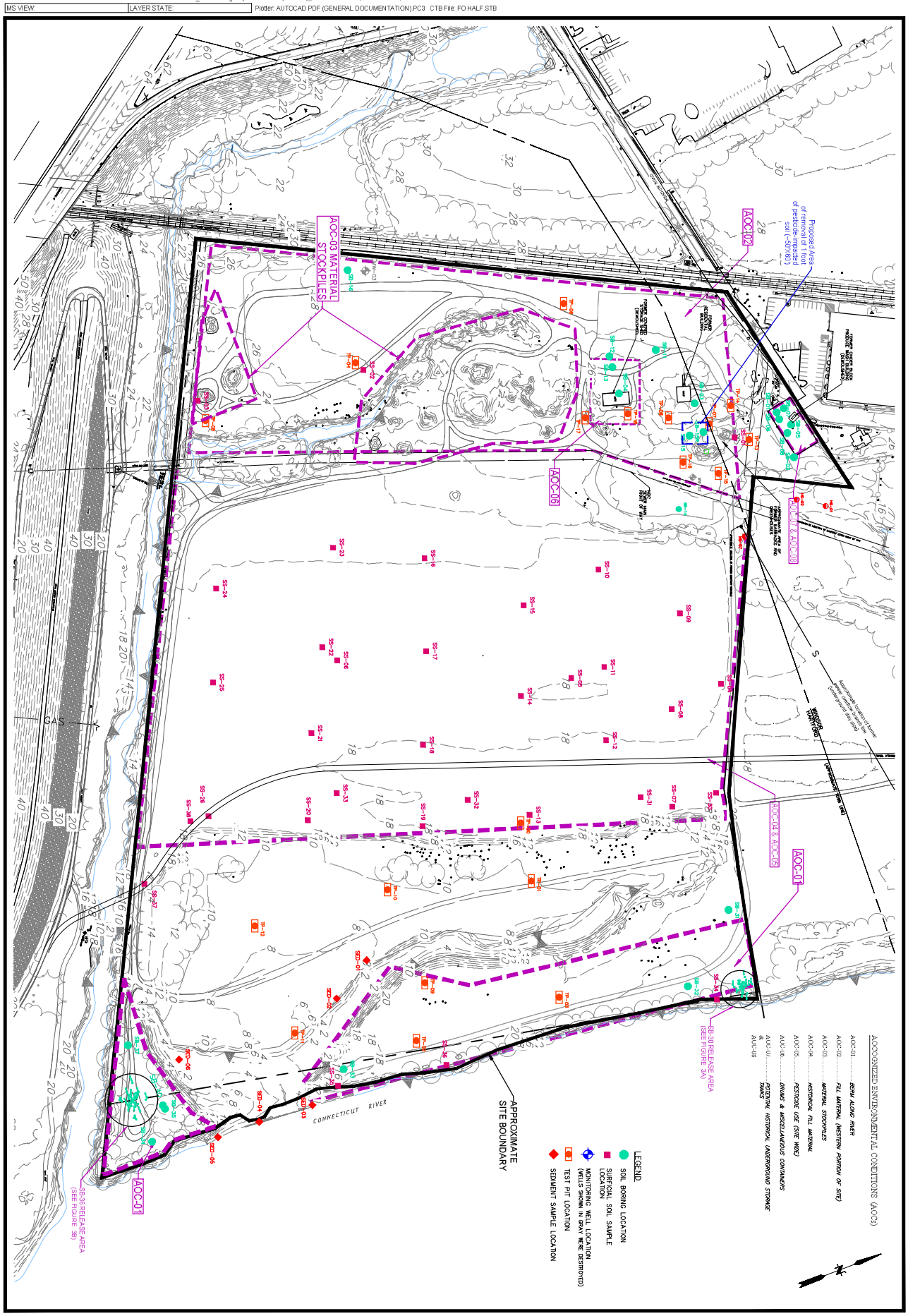

FIGURE 2

PROJ. NO. 20170277-A30
DATE: DECEMBER 2021

SITE PLAN AND SAMPLING LOCATIONS

RLI PROPERTY

HARTFORD AND WINDSOR CONNECTICUT

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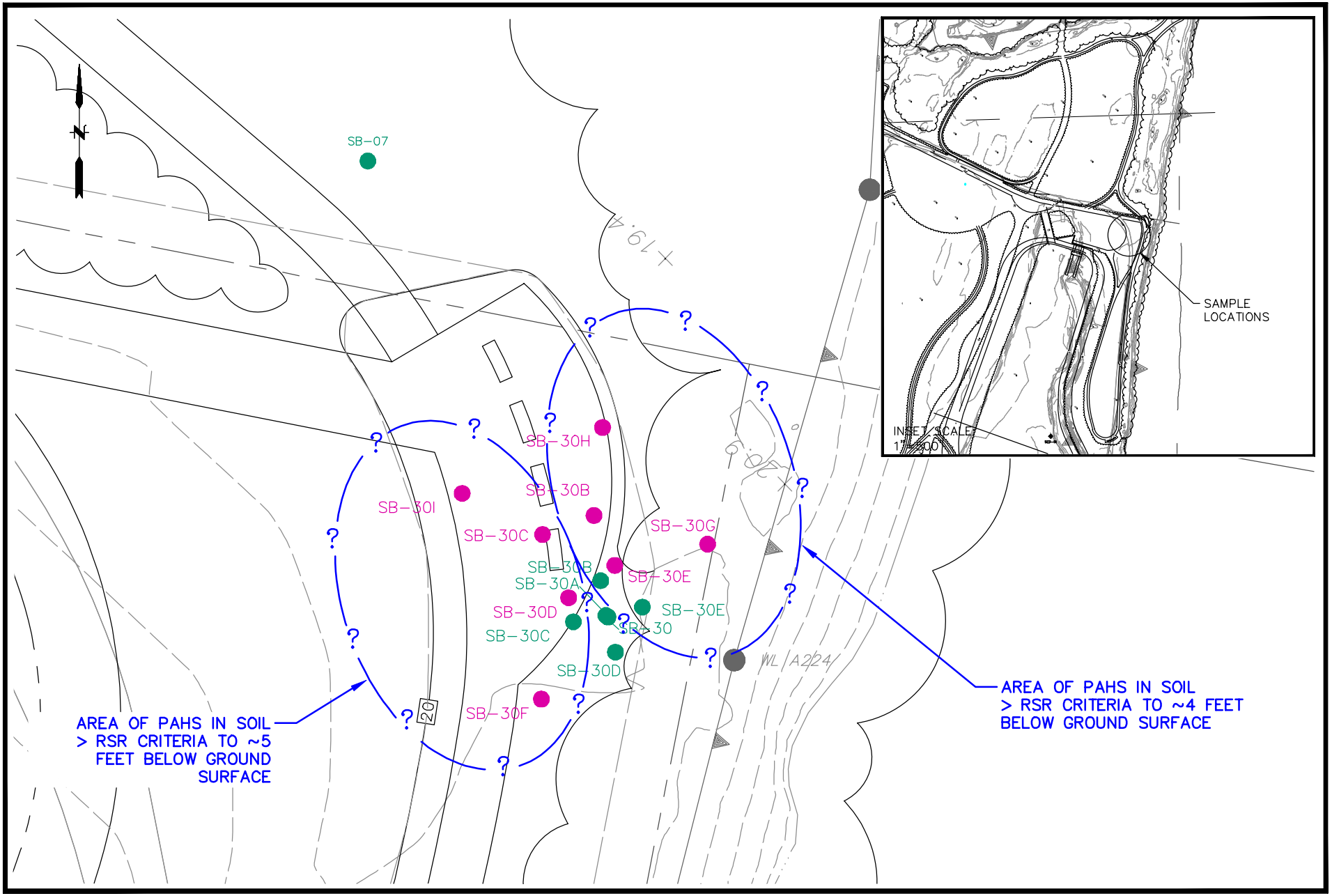
SCALE:
HORZ.: 1" = 200'
VERT.:
DATUM:
HORZ.:
VERT.:
0 100 200
GRAPHIC SCALE



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LAYER STATE:
MS VIEW:

SCALE:
HORZ.: 1" = 20'
VERT.:
DATUM:
HORZ.:
VERT.:

0 10 20
GRAPHIC SCALE

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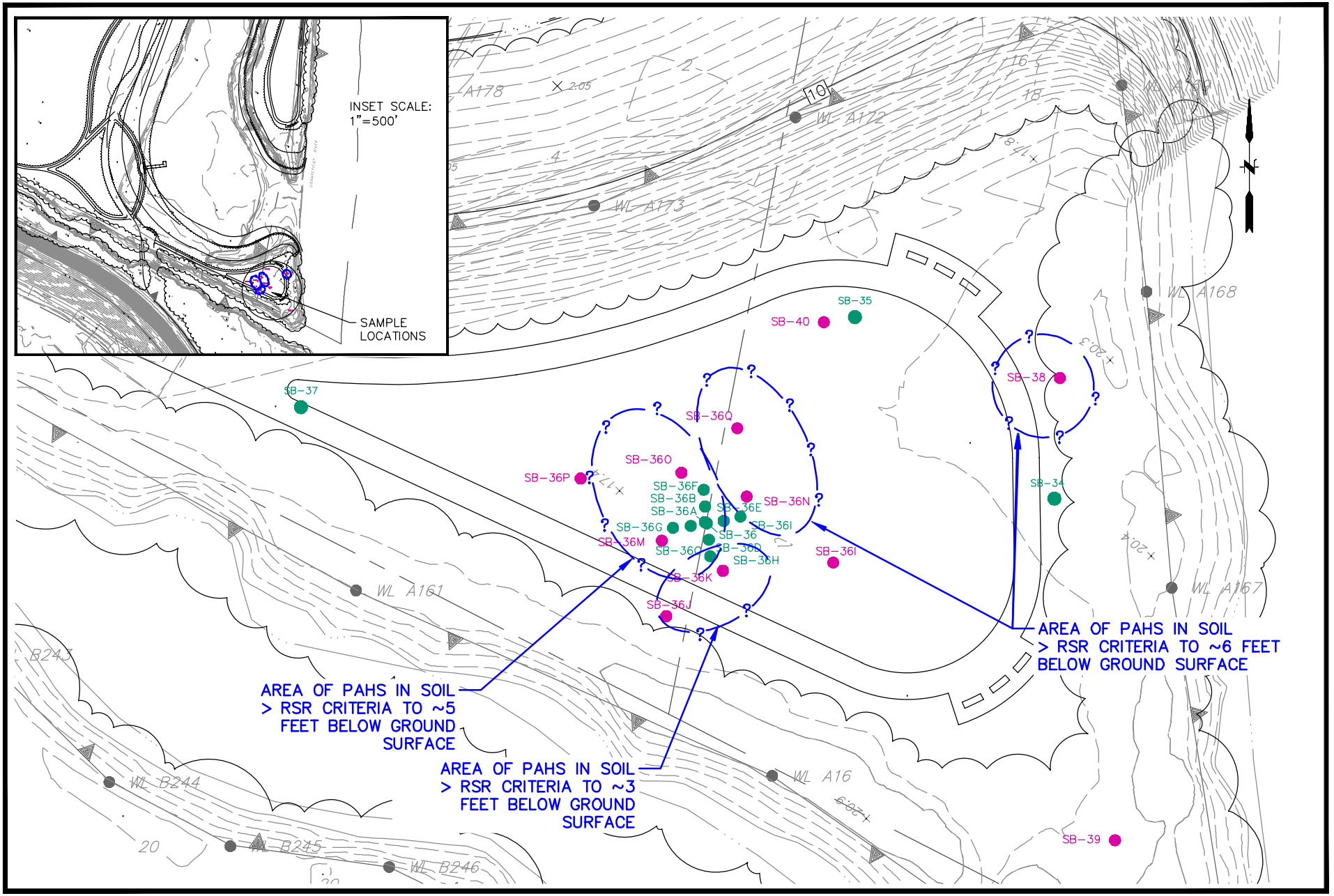
SB-30 RELEASE AREA - NORTHERN END OF RIVERBANK BERM

RLI PROPERTIES

HARTFORD & WINDSOR CONNECTICUT

PROJ. No.: 20170277.A30
DATE: DECEMBER 2021

FIGURE 2A



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SCALE:
HORZ.: 1" = 40'
VERT.:
DATUM:
HORZ.:
VERT.:

0 20 40
GRAPHIC SCALE

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SB-36 RELEASE AREA - SOUTHERN END OF RIVERBANK BERM

RLI PROPERTIES

HARTFORD & WINDSOR CONNECTICUT

PROJ. No.: 20170277.A30
DATE: DECEMBER 2021

FIGURE 2B

File Path: J:\DWG\P2017\0277A\30\Environmental\Plan\20170277A30_GWC01_8-2020.dwg Layout: 11X17-L (R-TBLK)_RLI Plotted: Wed, April 14, 2021 - 6:26 PM User: bchurch
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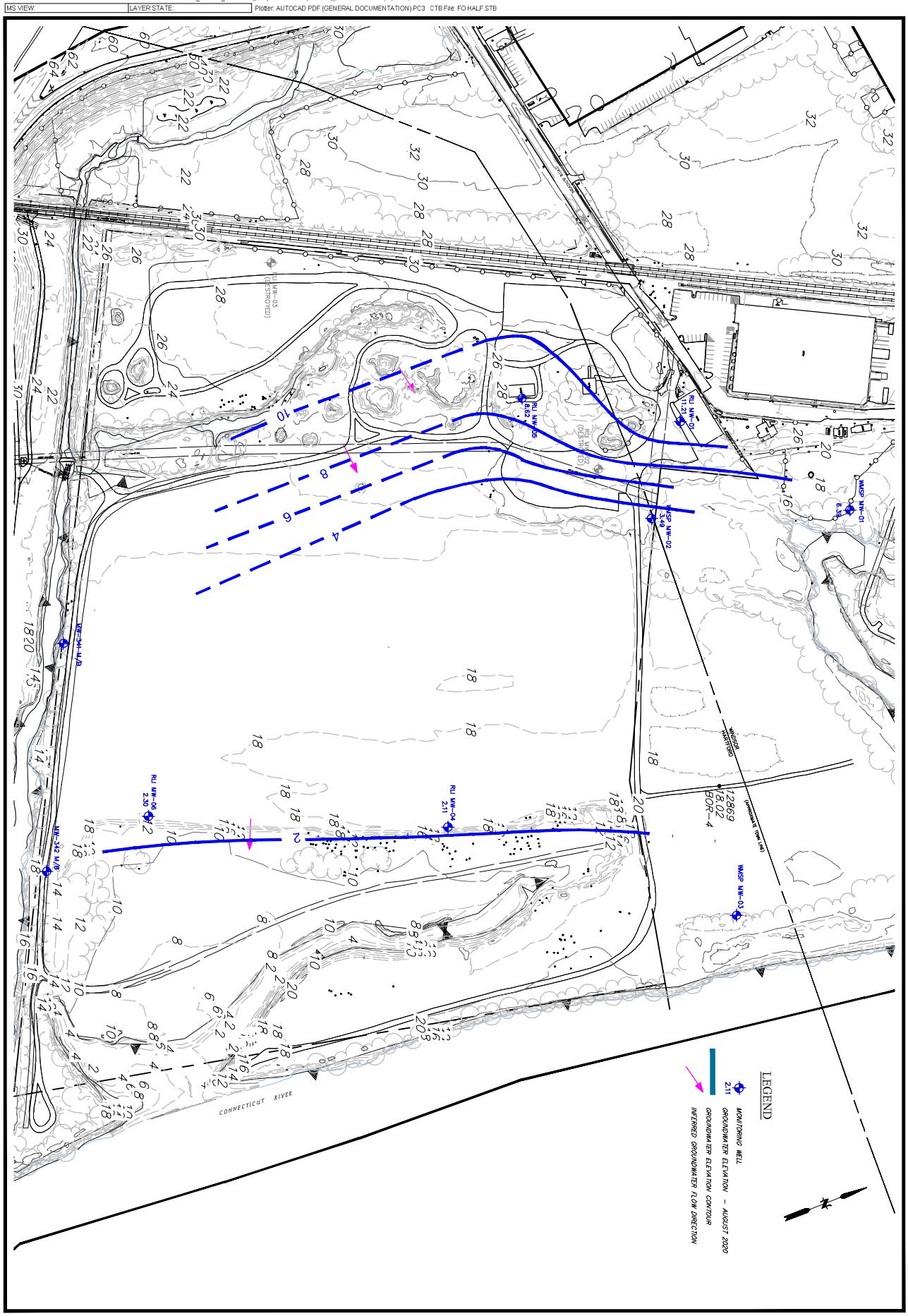

FIGURE 3

PROJ. NO. 20170277.A30
DATE: DECEMBER 2021

GROUNDWATER ELEVATION CONTOURS
AUGUST 2020

RLI PROPERTIES

HARTFORD AND WINDSOR CONNECTICUT

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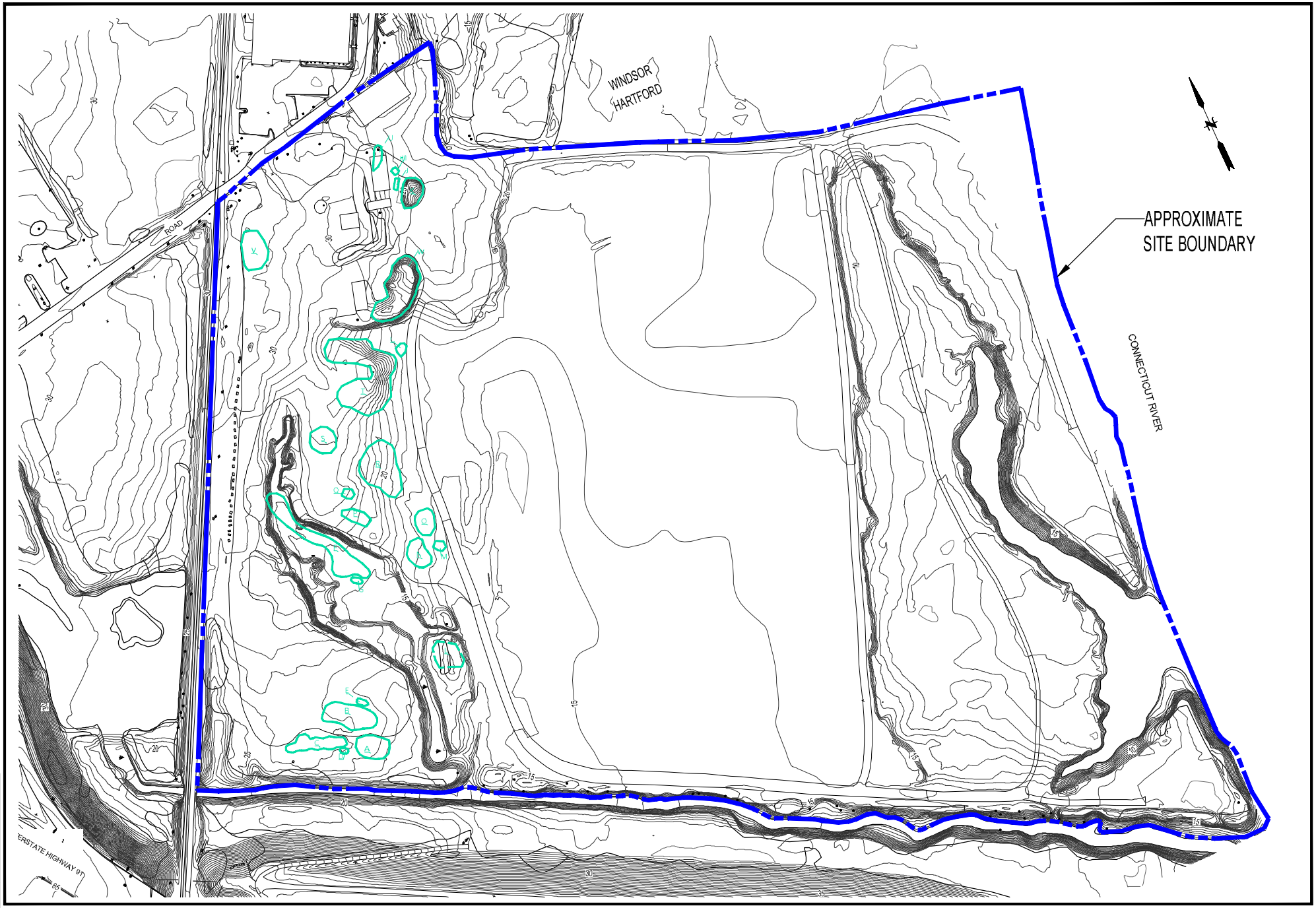
SCALE:
HORZ.: 1" = 100'
VERT.:
DATUM:
HORZ.:
VERT.:
0 50 100
GRAPHIC SCALE



No	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

MAP REFERENCE:
BASEMAP – MDC MAPS 0825-15 AND 0825-16

NOTE:
STOCKPILE LOCATIONS DATED CIRCA 2017;
TOPOGRAPHIC AND BASEMAP DATED CIRCA
2015-2016.

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

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CURRENT AND FORMER STOCKPILE LOCATIONS
RIVERFRONT LAND, INC. (RLI) PROPERTIES

HARTFORD CONNECTICUT

PROJ. No.: 20170277A30
DATE: DECEMBER 2021

FIGURE 4

File Path: J:\DWG\P20170277A10\Environmental\Plan\20170277A10_STP01.dwg Layout: 18X24-L - STOCKPILES Plotted: Wed, April 14, 2021 - 2:32 PM User: bchurch
Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO HALF STB
LAYER STATE:
MS VIEW

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Appendix A

2020 UST Removal and Closure Sampling Summary

FUSS & O'NEILL

October 30, 2020

Mr. Marc Nicol
Riverfront Recapture, Inc.
50 Columbus Blvd., 1st Floor
Hartford, CT 06106

RE: UST Removal and Closure Sampling
Riverfront Land, Inc. Properties
100 Meadow Road, Windsor, Connecticut
Fuss & O'Neill Reference No. 20170277.A30
DEEP Remediation Number: 14420
Spill Case Number: 202004079

Dear Mr. Nicol:

Fuss & O'Neill is pleased to provide this report documenting the closure of a 1,100-gallon heating oil underground storage tank (UST) at the Riverfront Land, Inc. (RLI) Property located at 100 Meadow Road in Windsor, Connecticut (hereafter referred to as the "Site"). The Site has been entered into the Voluntary Remediation program pursuant to Connecticut General Statutes (CGS) 22a-133x as part of the obligations associated with acceptance into the Abandoned Brownfield Cleanup (ABC) Program under CGS §32-768. This program requires compliance with the Connecticut Department of Energy and Environmental Protection (DEEP) UST Closure Guidelines. A Site location map is provided as *Figure 1* and a Site plan showing the location of the UST and the closure sampling locations is provided as *Figure 2*.

The UST was removed by Tank Works of Manchester, Connecticut on October 1, 2020. The UST was of steel construction and had not previously been registered, so it is unknown when the tank was first installed. Fuss & O'Neill collected soil samples for analysis in accordance with the DEEP's UST Closure Guidelines. Based on the analytical data, as described in further detail in the sections below, the tank can be considered properly closed, and no further action is required.

Since the UST was used for on-site heating and has a capacity less than 2,100 gallons, it is exempt from the following requirements under RCSA 22a-449(d)-1(c):

- Reporting/notifications
- Records; abnormal loss or gain
- Life expectancy
- Failure determination

Copies of this report will be submitted to the DEEP and the Town of Windsor Fire Marshal's office in accordance with the Voluntary Remediation Program requirements.

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California
Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Tank Removal Activities

On September 3, 2020, a 1,100-gallon UST was discovered beneath the concrete floor slab during demolition of the former cinder block produce wash building located on the northwest corner of the Site. Subsequently, Riverfront Recapture reported a surficial spill to the DEEP as spill-case number 202004079. The discovery of the tank was also reported to the Town of Windsor Fire Marshal's office.

The UST system's fuel oil supply and return piping were not found during the excavation of the tank. No evidence of staining, or leaking were observed during excavation or removal of the UST. However, the fill pipe on the top of the UST had been broken prior to excavation of the tank.

On September 8, 2020, the UST was gauged from broken fill pipe hole. The fluid inside the tank was sampled on September 11, 2020 by Red Technologies, LLC of Bloomfield, CT. It was determined that the tank contained approximately 300 gallons of primarily water with traces of No. 2 heating oil. The water likely entered the top of the tank via the hole left from the broken fill pipe. The trace heating oil identified in the tank is likely residual from the time of the tank's last operation.

Prior to removal of the UST on October 1, 2020, Federal Oil Service removed the approximately 300 gallons of the water and heating oil. The liquid was hauled off-site and disposed of. The tank was removed from the Site by Tank Works and cleaned at their facility in Manchester, Connecticut before being disposed of at City Scrap Yard in Hartford, Connecticut. Disposal documentation is provided in *Attachment A*.

Following removal of the UST, Fuss & O'Neill personnel examined its condition and collected soil samples from the tank grave. The tank was observed to be in fair condition with minimal corrosion and no evidence of pitting or leakage from the tank. Material within the tank grave generally consisted of silty sand with trace fill materials, including gravel, asphalt, brick, and wood. Neither groundwater nor bedrock was observed during UST removal activities. The tank grave measured approximately five feet deep, with an approximate length of 20 feet and a width of 15 feet. Photographs of the tank removal activities are provided in *Attachment B*.

Confirmatory Sampling

On October 1, 2020, in accordance with the DEEP's UST Closure guidelines, confirmatory soil samples were collected from each sidewall (S-N, S-S, S-W, and S-E) and two confirmatory soil samples were collected from the bottom of the tank grave (B-W and B-E). Sidewall samples were

collected from a depth of four feet below grade, and bottom samples were collected from a depth of 5 feet below grade. A detailed site sketch depicting sample locations is provided as *Figure 2*.

Fuss & O'Neill personnel inspected the sidewalls and bottom of the tank grave. No visual and/or physical evidence of a release to soil was observed in the UST excavation.

The soil samples were field-screened for volatile organic compounds (VOCs) using a photoionization detector (PID). Soil samples collected from the tank grave were submitted to Phoenix Environmental Laboratories and analyzed for the following constituents of concern:

- Extractable total petroleum hydrocarbons (ETPH) via CT ETPH
- VOCs via United States Environmental Protection Agency (USEPA) Method 8260
- Polycyclic aromatic hydrocarbons (PAHs) via USEPA Method 8270.

Results

All confirmatory samples collected yielded non-detects for all constituents of concern, confirming our physical observations that no release has occurred and the tank is properly closed. Analytical reports from the laboratory are provided as *Attachment C*.

The laboratory Reasonable Confidence Protocol (RCP) package and quality assurance/quality control (QA/QC) narratives provided with the lab report were reviewed to identify issues that could affect the usability of the data.

No VOCs were detected in the high or low level trip blanks submitted with the confirmatory soil samples. Several QA/QC issues were identified it the ETPH and/or VOC narratives, however, based on an evaluation of the narratives and the results of the confirmatory soil samples, no significant bias is suspected and the data is considered usable for its intended purpose.

Conclusions

Based upon field screening, laboratory analytical data, and field observation the tank is considered properly closed in accordance with DEEP guidelines. No further action is warranted.

In accordance with Section 22a-449 (d)-107(e) of the Regulations of Connecticut State Agencies (RCSA), this closure documentation should be maintained for a minimum of five years. We recommend that you keep this documentation indefinitely or until such time that the property is transferred.

Thank you for requesting environmental services from Fuss & O'Neill. If you have any questions regarding this investigation, or if we may be of further assistance, please feel free to contact either of the undersigned at (860) 646-2469.

Sincerely,

Brianna S. Church
Environmental Engineer II

Daniel R. Jahne, LEP
Associate

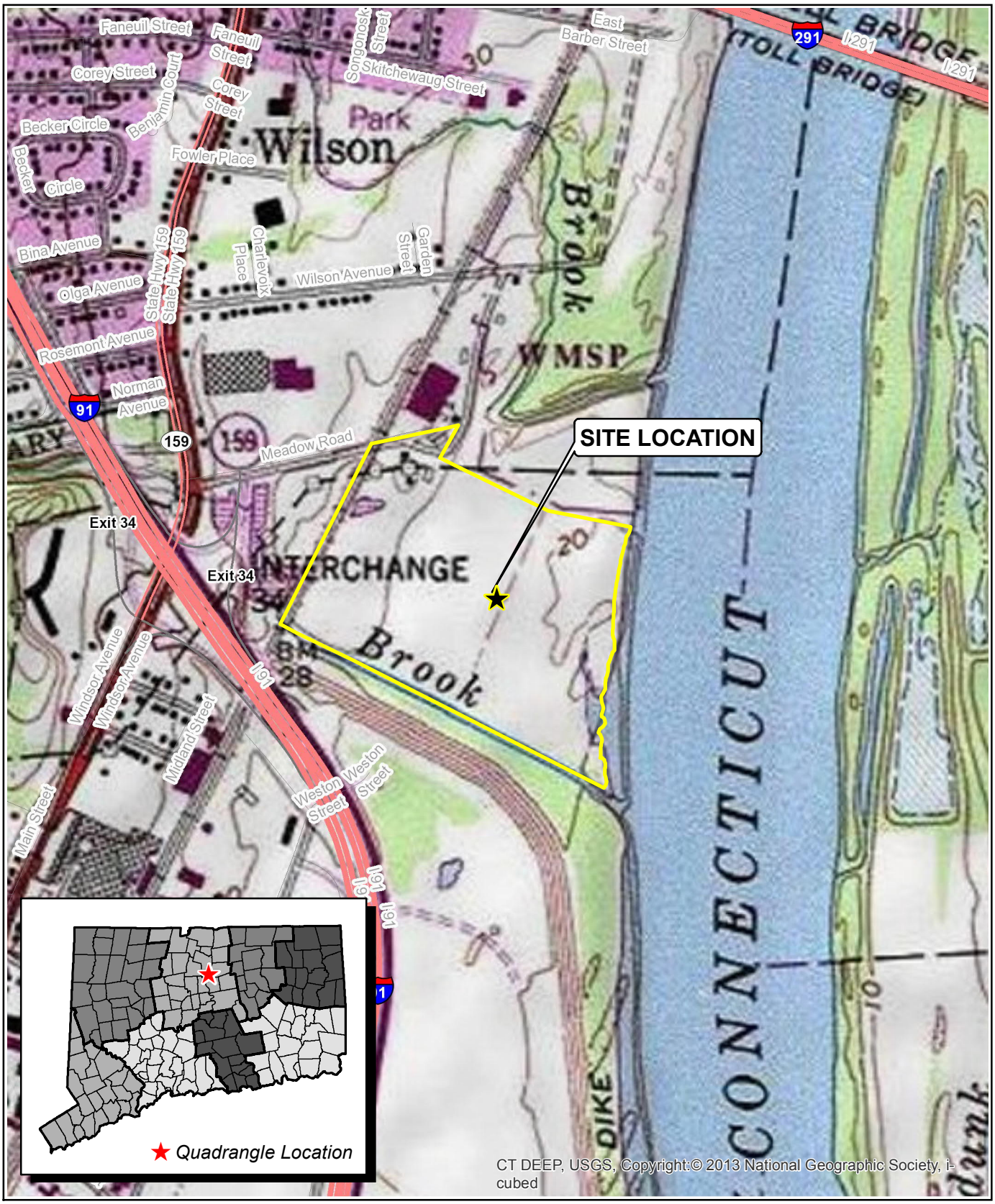
Attachments:

Figure 1 - Site Location
Figure 2 - Site Plan and Sampling Locations

Attachment A - Disposal Documents
Attachment B - Photographs
Attachment C - Laboratory Analytical Report

FUSS & O'NEILL

Figures



Path: K:\Phase_I_Basemap\MXD\Phase_I_Figures_Basemap.mxd

N

0 450 900

Feet

Data Source(s):
1. Parcel boundaries - CT DEEP
2. Basemap - National Geographic TOPO! 1:24,000-scale maps; TOPO! maps are seamless, scanned images of United States Geological Survey (USGS) paper topographic maps. http://goto.arcgisonline.com/maps/USA_Topo_Maps

Disclaimer: This map is not the product of a Professional Land Survey. It was created by Fuss & O'Neill, Inc. for general reference, informational, planning and guidance use, and is not a legally authoratative source as to location of natural or manmade features. Proper interpretation of this map may require the assistance of appropriate professional services. Fuss & O'Neill, Inc. makes no warrantee, express or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.

Site Location Map
Riverfront Land, Inc. Properties

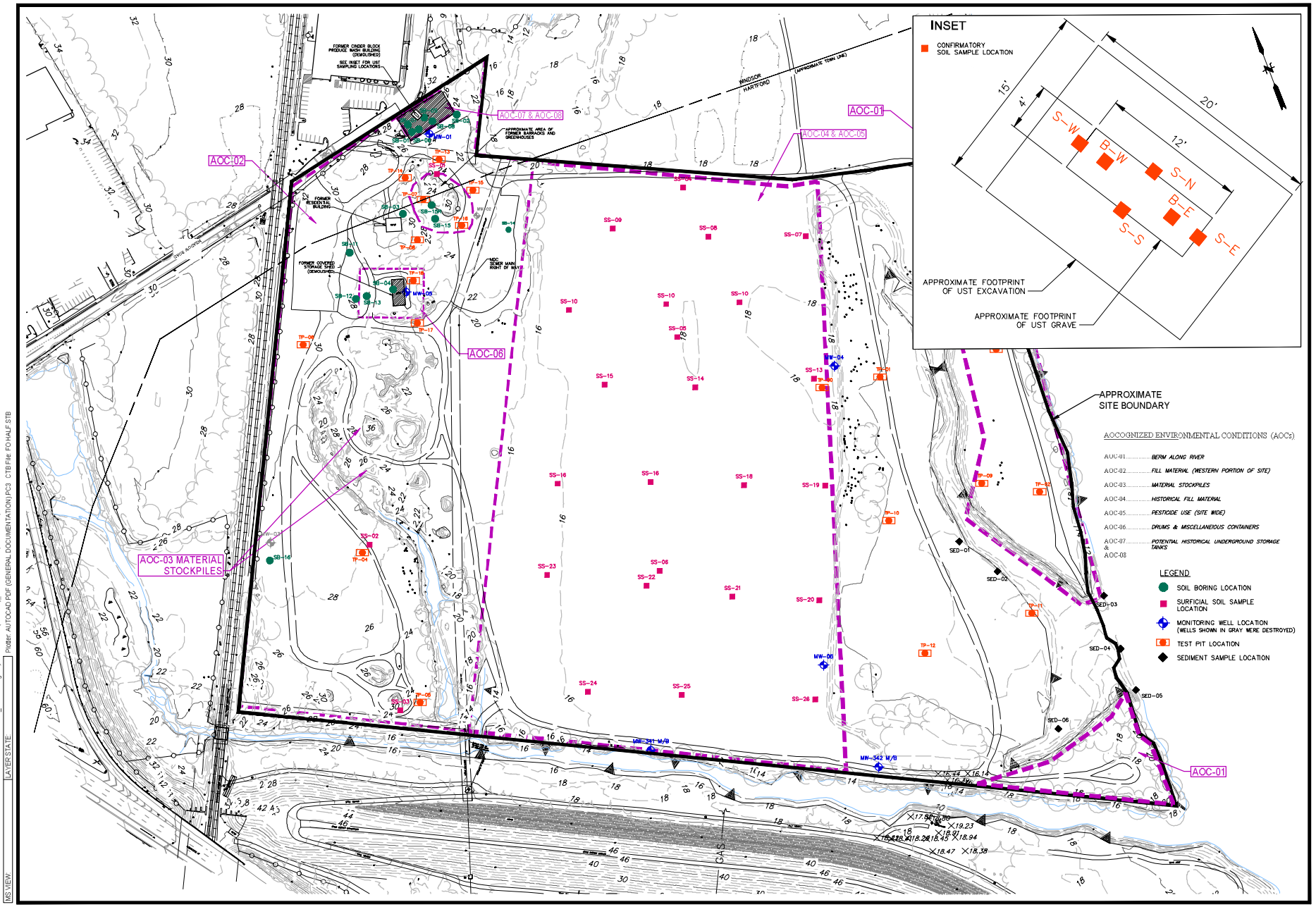
HARTFORD & WINDSOR CONNECTICUT

FUSS & O'NEILL
146 Hartford Road
Manchester, CT 06040
860.646.2469 | www.fando.com

PROJ. No. 20170277.A30

DATE: OCTOBER 2020

FIGURE 1



SCALE: HORZ. 1" = 200' VERT.
DATUM: HORZ.: VERT.:
GRAPHIC SCALE 0 100 200

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860-646-2469
www.fando.com

SITE PLAN AND SAMPLING LOCATIONS
RL PROPERTY
HARTFORD AND WINDSOR
CONNECTICUT

PROJ. No.: 20170277.A30
DATE: OCTOBER 2020

FIGURE 2

File Path: J:\DWG\P2017\0277\A30\Environmental\Plan\20170277A30_SAM01.dwg Layout: 11X17-L (R-TBUK) RU Plotted: Mon, October 26, 2020 - 9:12 PM User: bchurch
MS VIEW: LAYER STATE: Plotter: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 CTB File: FO HALF STB

FUSS & O'NEILL

Attachment A

Disposal Documents

Windsor Building Department
275 Broad Street
Windsor, CT, 06095
PHONE: (860) 285-1960
EMAIL: Building@townofwindsorct.com
www.townofwindsorct.com

BUILDING PERMIT

Permit #: **P-202141**

ADDRESS OF WORK LOCATION**: 100 MEADOW RD**

TYPE OF PERMIT: **Plumbing Commercial**

Application Date: **09/29/2020**

Retail Market Value: **$2,900.00**

Fee: **$61.00**

Owner:
LAND INC RIVERFRONT
50 COLUMBUS BLVD 1ST FL
HARTFORD, CT, 06106
Email:

Contractor(s):
TANKWORKS, SCOTT J BRICKEY
PO BOX 341, SIMSBURY, CT 060700341
Email: lily@tankworksct.com License #: 208624

DESCRIPTION OF WORK:
Removal of (1) 1000 gallon underground fuel tank

Inspections Required:
Please call (860) 285-1960 for inspections.

☒ FINAL INSPECTION ☐ INSULATION before covering ☐ PRESSURE TEST ☐ FOUNDATION
☐ IN PROGRESS ☐ ABOVE CEILING ☐ WEATHER/DAMP PROOFING ☐ COMBUSTION TEST
☐ FOOTING /PIERS ☐ FRAMING ☐ ROUGH ELECTRIC & MECHANICALS ☐ SERVICE
☐ CARBON MONOXIDE & SMOKE DETECTORS TO CODE ☐ OTHER
☐ POOL BONDING BEFORE REBAR ☐ POOL GATING/FENCING before filling pool

Reviewed By: Robert Ruzzo

Issued By: Robert J. Ruzzo **Date: 09/29/2020**

FEDERAL OIL SERVICE INC

58 Granite Hill Road
Killingworth, CT 06419
(860) 663-5688 • (800) 201-4475
EPA-CTR000501924
CT-HW-599

INVOICE 21913

DELETED

USED MOTOR OIL COLLECTION RECEIPTNA 1270

BILL OF LADING

DATE	10-1-20
CONTRACTOR	Tank Works
GENERATOR	
STREET	100 meadow Rd
CITY / STATE / ZIP CODE	Windsor CT 06095
TELEPHONE	800-811-8265
CONTACT	Lily
DRIVERS SIGNATURE	B. Mahler

TANK SIZE	QUANTITY/GALLONS
1000	500

HALOGENS	
COMMENTS	Tank pump dry
AMOUNT DUE	[redacted]
GENERATOR SIGNATURE	

Invoice

Tankworks of Connecticut LLC

360 E Center St
Manchester, CT 06040
860-646-3348
Lily@TankworksCT.com

BILL TO	SHIP TO
Riverfront Land Attn: Marc Nicol 50 Columbus BLVD Hartford, CT 06103	Work Performed At: 100 Meadow Road Windsor, CT 06095

INVOICE #	DATE	TOTAL DUE		TERMS	ENCLOSED
1756	10/01/2020	$0.00		Upon Completion	

P.O. NUMBER
2020-6712

DESCRIPTION	AMOUNT
Removal and Disposal of (1) 1000 Underground Oil Tank	3,200.00
Trucking Charge for Handling Tank Contents	750.00
Testing Tank Contents for PCBs (test was negative)	500.00
Permit Fee for Town Building Department	86.00
Security Deposit Received	-1,600.00

PAID

PAYMENT	2,936.00
BALANCE DUE	**$0.00**

Thank you for your business!

Fuel Tank Disposal Certificate

THIS CERTIFIES THAT
TANKWORKS
LEGALLY DISPOSED OF ONE (1) 1000 GALLON
UNDERGROUND FUEL TANK

From: 100 Meadow Road Windsor, CT

AT: City Scrap Yard
26 Fishfry St, Hartford, CT 06120

On Thursday October 1, 2020

Rosemary Viola Rainville/Owner

FUSS & O'NEILL

Attachment B

Photographs

Photo 1: October 1, 2020; looking southeast. Tank in grave prior to removal.

Photo 2: October 2, 2020; looking south. Tank and broken fill pipe in grave prior to removal.

Photo 3: October 1, 2020. Looking south. Removal of UST.

Photo 4: October, 2020. Looking southeast. Soil in bottom of tank grave.

FUSS & O'NEILL

Attachment C

Laboratory Analytical Report

Friday, October 09, 2020

Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RIVERFRONT RECAPTURE
SDG ID: GCG88629
Sample ID#s: CG88629 - CG88636

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,

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

October 09, 2020

SDG I.D.: GCG88629

Project ID: RIVERFRONT RECAPTURE

Client Id		Lab Id	Matrix
1305201001-01	B-W (5')	CG88629	SOIL
1305201001-02	B-E (5')	CG88630	SOIL
1305201001-03	S-N (4')	CG88631	SOIL
1305201001-04	S-S (4')	CG88632	SOIL
1305201001-05	S-W (4')	CG88633	SOIL
1305201001-06	S-E (4')	CG88634	SOIL
1305201001-07	Trip Blank (High)	CG88635	SOIL
1305201001-08	Trip Blank (Low)	CG88636	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

October 09, 2020

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	10/01/20	9:45
Location Code:	F&O	Received by:	LB	10/01/20	11:27
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCG88629
Phoenix ID: CG88629

Project ID: RIVERFRONT RECAPTURE B-W (5')
Client ID: 1305201001-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		10/01/20	CJ	SW846-%Solid
Extraction of CT ETPH	Completed				10/01/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				10/01/20	K/M	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	10/02/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/02/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	10/02/20	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloropropene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromoethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloroethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloropropane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-01

B-W (5')

Phoenix I.D.: CG88629

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,3-Dichloropropane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
2,2-Dichloropropane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
2-Chlorotoluene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
2-Hexanone	ND	26	ug/Kg	1	10/01/20	JLI	SW8260
2-Isopropyltoluene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
4-Chlorotoluene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	1	10/01/20	JLI	SW8260
Acetone	ND	260	ug/Kg	1	10/01/20	JLI	SW8260
Acrylonitrile	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Benzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromobenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromochloromethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromodichloromethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromoform	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromomethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Carbon Disulfide	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Carbon tetrachloride	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Chlorobenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Chloroethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Chloroform	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Chloromethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	1	10/01/20	JLI	SW8260
Dibromomethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Ethylbenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Hexachlorobutadiene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Isopropylbenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
m&p-Xylene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	1	10/01/20	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Naphthalene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
n-Butylbenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
n-Propylbenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
o-Xylene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
p-Isopropyltoluene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
sec-Butylbenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Styrene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
tert-Butylbenzene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Tetrachloroethene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Toluene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Total Xylenes	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-01

B-W (5')

Phoenix I.D.: CG88629

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Trichloroethene	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorofluoromethane	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Vinyl chloride	ND	5.2	ug/Kg	1	10/01/20	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	10/01/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	10/01/20	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	10/01/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	10/01/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	10/01/20	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	10/01/20	WB	30 - 130 %
% Terphenyl-d14	91		%	1	10/01/20	WB	30 - 130 %
Field Extraction	Completed				10/01/20		SW5035A

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-01

B-W (5')

Phoenix I.D.: CG88629

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
October 09, 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

October 09, 2020

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	10/01/20	9:50
Location Code:	F&O	Received by:	LB	10/01/20	11:27
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCG88629
Phoenix ID: CG88630

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-02

B-E (5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		10/01/20	CJ	SW846-%Solid
Extraction of CT ETPH	Completed				10/01/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				10/01/20	K/M	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	10/02/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/02/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	10/02/20	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-02

B-E (5')

Phoenix I.D.: CG88630

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	10/01/20	JLI	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	10/01/20	JLI	SW8260
Acetone	ND	280	ug/Kg	1	10/01/20	JLI	SW8260
Acrylonitrile	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Benzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromobenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromochloromethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromoform	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromomethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Chlorobenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Chloroethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Chloroform	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Chloromethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	1	10/01/20	JLI	SW8260
Dibromomethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Ethylbenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
m&p-Xylene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	1	10/01/20	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	10/01/20	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	10/01/20	JLI	SW8260
Naphthalene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
o-Xylene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Styrene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	10/01/20	JLI	SW8260
Toluene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Total Xylenes	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-02

B-E (5')

Phoenix I.D.: CG88630

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	10/01/20	JLI	SW8260
Trichloroethene	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorotrifluoroethane	ND	11	ug/Kg	1	10/01/20	JLI	SW8260
Vinyl chloride	ND	5.7	ug/Kg	1	10/01/20	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	10/01/20	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	10/01/20	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	10/01/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	10/01/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	10/01/20	WB	30 - 130 %
% Nitrobenzene-d5	74		%	1	10/01/20	WB	30 - 130 %
% Terphenyl-d14	94		%	1	10/01/20	WB	30 - 130 %
Field Extraction	Completed				10/01/20		SW5035A

Project ID: RIVERFRONT RECAPTURE B-E (5') Phoenix I.D.: CG88630
Client ID: 1305201001-02

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
October 09, 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

October 09, 2020

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	10/01/20	9:55
Location Code:	F&O	Received by:	LB	10/01/20	11:27
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCG88629
Phoenix ID: CG88631

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-03

S-N (4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		10/01/20	CJ	SW846-%Solid
Extraction of CT ETPH	Completed				10/01/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				10/01/20	K/M	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	10/02/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/02/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	10/02/20	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1,1-Trichloroethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2-Trichloroethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloropropene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichloropropane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichlorobenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloroethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloropropane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-03

S-N (4')

Phoenix I.D.: CG88631

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,3-Dichlorobenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,3-Dichloropropane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
1,4-Dichlorobenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
2,2-Dichloropropane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
2-Chlorotoluene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
2-Hexanone	ND	36	ug/Kg	1	10/01/20	JLI	SW8260
2-Isopropyltoluene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
4-Chlorotoluene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
4-Methyl-2-pentanone	ND	36	ug/Kg	1	10/01/20	JLI	SW8260
Acetone	ND	360	ug/Kg	1	10/01/20	JLI	SW8260
Acrylonitrile	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Benzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromobenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromochloromethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromodichloromethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromoform	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Bromomethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Carbon Disulfide	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Carbon tetrachloride	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Chlorobenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Chloroethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Chloroform	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Chloromethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,2-Dichloroethene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,3-Dichloropropene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Dibromochloromethane	ND	4.3	ug/Kg	1	10/01/20	JLI	SW8260
Dibromomethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Dichlorodifluoromethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Ethylbenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Hexachlorobutadiene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Isopropylbenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
m&p-Xylene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Methyl Ethyl Ketone	ND	43	ug/Kg	1	10/01/20	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	10/01/20	JLI	SW8260
Methylene chloride	ND	14	ug/Kg	1	10/01/20	JLI	SW8260
Naphthalene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
n-Butylbenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
n-Propylbenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
o-Xylene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
p-Isopropyltoluene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
sec-Butylbenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Styrene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
tert-Butylbenzene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Tetrachloroethene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	10/01/20	JLI	SW8260
Toluene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Total Xylenes	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-03

S-N (4')

Phoenix I.D.: CG88631

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	10/01/20	JLI	SW8260
Trichloroethene	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorofluoromethane	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorotrifluoroethane	ND	14	ug/Kg	1	10/01/20	JLI	SW8260
Vinyl chloride	ND	7.2	ug/Kg	1	10/01/20	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/01/20	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	10/01/20	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	10/01/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	10/01/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/01/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	10/01/20	WB	30 - 130 %
% Nitrobenzene-d5	79		%	1	10/01/20	WB	30 - 130 %
% Terphenyl-d14	94		%	1	10/01/20	WB	30 - 130 %
Field Extraction	Completed				10/01/20		SW5035A

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-03

S-N (4')

Phoenix I.D.: CG88631

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
October 09, 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

October 09, 2020

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	10/01/20	10:00
Location Code:	F&O	Received by:	LB	10/01/20	11:27
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCG88629
Phoenix ID: CG88632

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-04

S-S (4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		10/01/20	CJ	SW846-%Solid
Extraction of CT ETPH	Completed				10/01/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				10/01/20	K/M	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	10/02/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/02/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	50		%	1	10/02/20	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromoethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE S-S (4') Phoenix I.D.: CG88632
Client ID: 1305201001-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,3-Dichlorobenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
2-Hexanone	ND	30	ug/Kg	1	10/01/20	JLI	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	1	10/01/20	JLI	SW8260
Acetone	ND	300	ug/Kg	1	10/01/20	JLI	SW8260
Acrylonitrile	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Benzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Bromobenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Bromochloromethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Bromoform	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Bromomethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Chlorobenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Chloroethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Chloroform	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Chloromethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	1	10/01/20	JLI	SW8260
Dibromomethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Ethylbenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
m&p-Xylene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	1	10/01/20	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	10/01/20	JLI	SW8260
Methylene chloride	ND	12	ug/Kg	1	10/01/20	JLI	SW8260
Naphthalene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
o-Xylene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Styrene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	10/01/20	JLI	SW8260
Toluene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Total Xylenes	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-04

S-S (4')

Phoenix I.D.: CG88632

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	10/01/20	JLI	SW8260
Trichloroethene	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorotrifluoroethane	ND	12	ug/Kg	1	10/01/20	JLI	SW8260
Vinyl chloride	ND	5.9	ug/Kg	1	10/01/20	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	10/01/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	10/01/20	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	10/01/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	10/01/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Anthracene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Chrysene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Fluoranthene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Phenanthrene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
Pyrene	ND	270	ug/Kg	1	10/01/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	10/01/20	WB	30 - 130 %
% Nitrobenzene-d5	70		%	1	10/01/20	WB	30 - 130 %
% Terphenyl-d14	96		%	1	10/01/20	WB	30 - 130 %
Field Extraction	Completed				10/01/20		SW5035A

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-04

S-S (4')

Phoenix I.D.: CG88632

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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Phyllis Shiller, Laboratory Director
October 09, 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

October 09, 2020

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	10/01/20	10:05
Location Code:	F&O	Received by:	LB	10/01/20	11:27
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCG88629
Phoenix ID: CG88633

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-05

S-W (4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		10/01/20	CJ	SW846-%Solid
Extraction of CT ETPH	Completed				10/01/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				10/01/20	K/M	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	10/02/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/02/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	61		%	1	10/02/20	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1,1-Trichloroethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.6	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2-Trichloroethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloropropene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichloropropane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichlorobenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloroethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloropropane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-05

S-W (4')

Phoenix I.D.: CG88633

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,3-Dichlorobenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,3-Dichloropropane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
1,4-Dichlorobenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
2,2-Dichloropropane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
2-Chlorotoluene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
2-Hexanone	ND	39	ug/Kg	1	10/01/20	JLI	SW8260
2-Isopropyltoluene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
4-Chlorotoluene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
4-Methyl-2-pentanone	ND	39	ug/Kg	1	10/01/20	JLI	SW8260
Acetone	ND	390	ug/Kg	1	10/01/20	JLI	SW8260
Acrylonitrile	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Benzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromobenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromochloromethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromodichloromethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromoform	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Bromomethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Carbon Disulfide	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Carbon tetrachloride	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Chlorobenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Chloroethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Chloroform	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Chloromethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,2-Dichloroethene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,3-Dichloropropene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Dibromochloromethane	ND	4.6	ug/Kg	1	10/01/20	JLI	SW8260
Dibromomethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Dichlorodifluoromethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Ethylbenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Hexachlorobutadiene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Isopropylbenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
m&p-Xylene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Methyl Ethyl Ketone	ND	46	ug/Kg	1	10/01/20	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	1	10/01/20	JLI	SW8260
Methylene chloride	ND	15	ug/Kg	1	10/01/20	JLI	SW8260
Naphthalene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
n-Butylbenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
n-Propylbenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
o-Xylene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
p-Isopropyltoluene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
sec-Butylbenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Styrene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
tert-Butylbenzene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Tetrachloroethene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	1	10/01/20	JLI	SW8260
Toluene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Total Xylenes	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-05

S-W (4')

Phoenix I.D.: CG88633

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	1	10/01/20	JLI	SW8260
Trichloroethene	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorofluoromethane	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorotrifluoroethane	ND	15	ug/Kg	1	10/01/20	JLI	SW8260
Vinyl chloride	ND	7.7	ug/Kg	1	10/01/20	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/01/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	10/01/20	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	10/01/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	10/01/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Acenaphthene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Anthracene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Chrysene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Fluoranthene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Fluorene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Naphthalene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Phenanthrene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
Pyrene	ND	240	ug/Kg	1	10/02/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	10/02/20	WB	30 - 130 %
% Nitrobenzene-d5	71		%	1	10/02/20	WB	30 - 130 %
% Terphenyl-d14	93		%	1	10/02/20	WB	30 - 130 %
Field Extraction	Completed				10/01/20		SW5035A

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-05

S-W (4')

Phoenix I.D.: CG88633

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
October 09, 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

October 09, 2020

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	10/01/20	10:10
Location Code:	F&O	Received by:	LB	10/01/20	11:27
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCG88629
Phoenix ID: CG88634

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-06

S-E (4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		10/01/20	CJ	SW846-%Solid
Extraction of CT ETPH	Completed				10/01/20	G/A	SW3546
Soil Extraction for SVOA PAH	Completed				10/01/20	K/M	SW3546
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	10/02/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/02/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	61		%	1	10/02/20	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloropropene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichloropropane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromoethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichlorobenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-06

S-E (4')

Phoenix I.D.: CG88634

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
1,3-Dichlorobenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,3-Dichloropropane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
1,4-Dichlorobenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
2,2-Dichloropropane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
2-Chlorotoluene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
2-Hexanone	ND	31	ug/Kg	1	10/01/20	JLI	SW8260
2-Isopropyltoluene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
4-Chlorotoluene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	1	10/01/20	JLI	SW8260
Acetone	ND	310	ug/Kg	1	10/01/20	JLI	SW8260
Acrylonitrile	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Benzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Bromobenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Bromochloromethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Bromoform	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Bromomethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Carbon Disulfide	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Chlorobenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Chloroethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Chloroform	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Chloromethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Dibromochloromethane	ND	3.8	ug/Kg	1	10/01/20	JLI	SW8260
Dibromomethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Ethylbenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Hexachlorobutadiene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Isopropylbenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
m&p-Xylene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Methyl Ethyl Ketone	ND	38	ug/Kg	1	10/01/20	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	10/01/20	JLI	SW8260
Methylene chloride	ND	13	ug/Kg	1	10/01/20	JLI	SW8260
Naphthalene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
n-Butylbenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
n-Propylbenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
o-Xylene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
p-Isopropyltoluene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
sec-Butylbenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Styrene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
tert-Butylbenzene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	10/01/20	JLI	SW8260
Toluene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Total Xylenes	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-06

S-E (4')

Phoenix I.D.: CG88634

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	10/01/20	JLI	SW8260
Trichloroethene	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorotrifluoroethane	ND	13	ug/Kg	1	10/01/20	JLI	SW8260
Vinyl chloride	ND	6.3	ug/Kg	1	10/01/20	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/01/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	10/01/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	10/01/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	10/01/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/02/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	10/02/20	WB	30 - 130 %
% Nitrobenzene-d5	85		%	1	10/02/20	WB	30 - 130 %
% Terphenyl-d14	93		%	1	10/02/20	WB	30 - 130 %
Field Extraction	Completed				10/01/20		SW5035A

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-06

S-E (4')

Phoenix I.D.: CG88634

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
October 09, 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

October 09, 2020

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	10/01/20	10:15
Location Code:	F&O	Received by:	LB	10/01/20	11:27
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCG88629
Phoenix ID: CG88635

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-07

Trip Blank (High)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	10/01/20	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	10/01/20	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	100	ug/Kg	50	10/01/20	JLI	SW8260
1,2-Dibromoethane	ND	100	ug/Kg	50	10/01/20	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,2-Dichloroethane	ND	200	ug/Kg	50	10/01/20	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	10/01/20	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-07

Trip Blank (High)

Phoenix I.D.: CG88635

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Acetone	ND	5000	ug/Kg	50	10/01/20	JLI	SW8260
Acrylonitrile	ND	100	ug/Kg	50	10/01/20	JLI	SW8260
Benzene	ND	200	ug/Kg	50	10/01/20	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Bromodichloromethane	ND	210	ug/Kg	50	10/01/20	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
cis-1,3-Dichloropropene	ND	100	ug/Kg	50	10/01/20	JLI	SW8260
Dibromochloromethane	ND	100	ug/Kg	50	10/01/20	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	10/01/20	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	10/01/20	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Styrene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	10/01/20	JLI	SW8260
Toluene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	100	ug/Kg	50	10/01/20	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	10/01/20	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	10/01/20	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	10/01/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	96		%	50	10/01/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	10/01/20	JLI	70 - 130 %

Ver 1

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-07

Trip Blank (High)

Phoenix I.D.: CG88635

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% Toluene-d8 (50x)	99		%	50	10/01/20	JLI	70 - 130 %
Field Extraction	Completed				10/01/20		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

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

Phyllis Shiller, Laboratory Director
October 09, 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

October 09, 2020

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	10/01/20	10:20
Location Code:	F&O	Received by:	LB	10/01/20	11:27
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCG88629
Phoenix ID: CG88636

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-08

Trip Blank (Low)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/01/20	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	10/01/20	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/01/20	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-08

Trip Blank (Low)

Phoenix I.D.: CG88636

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Acetone	ND	250	ug/Kg	1	10/01/20	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	10/01/20	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/01/20	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/01/20	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	10/01/20	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	10/01/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	10/01/20	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	10/01/20	JLI	70 - 130 %

Ver 1

Project ID: RIVERFRONT RECAPTURE
Client ID: 1305201001-08

Trip Blank (Low)

Phoenix I.D.: CG88636

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
% Toluene-d8	99		%	1	10/01/20	JLI	70 - 130 %
Field Extraction	Completed				10/01/20		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

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

Phyllis Shiller, Laboratory Director
October 09, 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

October 09, 2020

QA/QC Data

SDG I.D.: GCG88629

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 547729 (mg/Kg), QC Sample No: CG88628 (CG88629, CG88630, CG88631, CG88632, CG88633, CG88634)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	71	82	14.4	87	85	2.3	60 - 120	30	
% n-Pentacosane	33	%	48	57	17.1	63	80	23.8	50 - 150	30	l,s
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 547763 (ug/kg), QC Sample No: CG88602 (CG88629, CG88630, CG88631, CG88632, CG88633, CG88634)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	76	74	2.7	62	59	5.0	40 - 140	30	
Acenaphthene	ND	230	85	85	0.0	74	71	4.1	30 - 130	30	
Acenaphthylene	ND	230	79	81	2.5	68	68	0.0	40 - 140	30	
Anthracene	ND	230	85	86	1.2	76	75	1.3	40 - 140	30	
Benz(a)anthracene	ND	230	94	97	3.1	85	84	1.2	40 - 140	30	
Benzo(a)pyrene	ND	230	92	95	3.2	85	81	4.8	40 - 140	30	
Benzo(b)fluoranthene	ND	230	111	110	0.9	102	102	0.0	40 - 140	30	
Benzo(ghi)perylene	ND	230	67	71	5.8	72	66	8.7	40 - 140	30	
Benzo(k)fluoranthene	ND	230	68	70	2.9	64	61	4.8	40 - 140	30	
Chrysene	ND	230	90	94	4.3	84	83	1.2	40 - 140	30	
Dibenz(a,h)anthracene	ND	230	76	83	8.8	79	76	3.9	40 - 140	30	
Fluoranthene	ND	230	87	91	4.5	79	79	0.0	40 - 140	30	
Fluorene	ND	230	89	94	5.5	81	80	1.2	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	70	75	6.9	71	66	7.3	40 - 140	30	
Naphthalene	ND	230	66	63	4.7	50	48	4.1	40 - 140	30	
Phenanthrene	ND	230	84	87	3.5	74	76	2.7	40 - 140	30	
Pyrene	ND	230	88	90	2.2	80	78	2.5	30 - 130	30	
% 2-Fluorobiphenyl	74	%	77	75	2.6	63	58	8.3	30 - 130	30	
% Nitrobenzene-d5	86	%	81	82	1.2	62	60	3.3	30 - 130	30	
% Terphenyl-d14	90	%	100	103	3.0	91	87	4.5	30 - 130	30	
Comment:											
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)											
QA/QC Batch 547893 (ug/kg), QC Sample No: CG88629 (CG88629, CG88630, CG88631, CG88632, CG88633, CG88634, CG88635 (50X) , CG88636)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	126	122	3.2	124	124	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	110	105	4.7	114	108	5.4	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	105	107	1.9	114	109	4.5	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	111	107	3.7	114	111	2.7	70 - 130	30	
1,1-Dichloroethane	ND	5.0	106	102	3.8	112	109	2.7	70 - 130	30	
1,1-Dichloroethene	ND	5.0	120	115	4.3	127	122	4.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	110	105	4.7	112	108	3.6	70 - 130	30	

QA/QC Data

SDG I.D.: GCG88629

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	5.0	119	117	1.7	117	112	4.4	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	100	101	1.0	107	103	3.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	125	122	2.4	119	112	6.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	107	105	1.9	110	105	4.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	127	126	0.8	123	125	1.6	70 - 130	30	
1,2-Dibromoethane	ND	5.0	108	110	1.8	114	111	2.7	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	113	109	3.6	114	110	3.6	70 - 130	30	
1,2-Dichloroethane	ND	5.0	107	104	2.8	111	107	3.7	70 - 130	30	
1,2-Dichloropropane	ND	5.0	109	106	2.8	114	110	3.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	110	108	1.8	115	108	6.3	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	115	112	2.6	116	112	3.5	70 - 130	30	
1,3-Dichloropropane	ND	5.0	105	104	1.0	110	108	1.8	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	114	111	2.7	113	110	2.7	70 - 130	30	
2,2-Dichloropropane	ND	5.0	117	110	6.2	119	112	6.1	70 - 130	30	
2-Chlorotoluene	ND	5.0	110	108	1.8	113	108	4.5	70 - 130	30	
2-Hexanone	ND	25	152	155	2.0	147	145	1.4	70 - 130	30	l,m
2-Isopropyltoluene	ND	5.0	112	109	2.7	117	112	4.4	70 - 130	30	
4-Chlorotoluene	ND	5.0	111	108	2.7	113	107	5.5	70 - 130	30	
4-Methyl-2-pentanone	ND	25	111	111	0.0	114	111	2.7	70 - 130	30	
Acetone	ND	10	162	162	0.0	164	160	2.5	70 - 130	30	l,m
Acrylonitrile	ND	5.0	99	99	0.0	101	97	4.0	70 - 130	30	
Benzene	ND	1.0	107	104	2.8	112	108	3.6	70 - 130	30	
Bromobenzene	ND	5.0	110	107	2.8	111	107	3.7	70 - 130	30	
Bromochloromethane	ND	5.0	115	111	3.5	117	112	4.4	70 - 130	30	
Bromodichloromethane	ND	5.0	118	114	3.4	117	115	1.7	70 - 130	30	
Bromoform	ND	5.0	136	129	5.3	122	125	2.4	70 - 130	30	l
Bromomethane	ND	5.0	105	105	0.0	128	120	6.5	70 - 130	30	
Carbon Disulfide	ND	5.0	119	113	5.2	123	120	2.5	70 - 130	30	
Carbon tetrachloride	ND	5.0	120	112	6.9	115	111	3.5	70 - 130	30	
Chlorobenzene	ND	5.0	114	110	3.6	117	112	4.4	70 - 130	30	
Chloroethane	ND	5.0	106	101	4.8	117	113	3.5	70 - 130	30	
Chloroform	ND	5.0	107	103	3.8	112	108	3.6	70 - 130	30	
Chloromethane	ND	5.0	90	84	6.9	91	87	4.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	101	99	2.0	105	101	3.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	115	111	3.5	116	113	2.6	70 - 130	30	
Dibromochloromethane	ND	3.0	133	128	3.8	125	125	0.0	70 - 130	30	l
Dibromomethane	ND	5.0	108	104	3.8	110	106	3.7	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	98	93	5.2	102	95	7.1	70 - 130	30	
Ethylbenzene	ND	1.0	113	109	3.6	116	112	3.5	70 - 130	30	
Hexachlorobutadiene	ND	5.0	128	124	3.2	129	119	8.1	70 - 130	30	
Isopropylbenzene	ND	1.0	110	108	1.8	115	108	6.3	70 - 130	30	
m&p-Xylene	ND	2.0	115	110	4.4	117	114	2.6	70 - 130	30	
Methyl ethyl ketone	ND	5.0	162	167	3.0	166	160	3.7	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	1.0	103	100	3.0	111	107	3.7	70 - 130	30	
Methylene chloride	ND	5.0	106	102	3.8	114	110	3.6	70 - 130	30	
Naphthalene	ND	5.0	115	115	0.0	117	114	2.6	70 - 130	30	
n-Butylbenzene	ND	1.0	117	114	2.6	119	112	6.1	70 - 130	30	
n-Propylbenzene	ND	1.0	114	111	2.7	118	111	6.1	70 - 130	30	
o-Xylene	ND	2.0	114	109	4.5	116	113	2.6	70 - 130	30	
p-Isopropyltoluene	ND	1.0	117	112	4.4	119	114	4.3	70 - 130	30	
sec-Butylbenzene	ND	1.0	120	116	3.4	125	119	4.9	70 - 130	30	
Styrene	ND	5.0	116	112	3.5	118	115	2.6	70 - 130	30	
tert-Butylbenzene	ND	1.0	111	108	2.7	116	111	4.4	70 - 130	30	

QA/QC Data

SDG I.D.: GCG88629

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Tetrachloroethene	ND	5.0	122	116	5.0	122	117	4.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	96	98	2.1	103	100	3.0	70 - 130	30	
Toluene	ND	1.0	110	106	3.7	114	109	4.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	127	122	4.0	133	128	3.8	70 - 130	30	m
trans-1,3-Dichloropropene	ND	5.0	118	115	2.6	118	116	1.7	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	135	135	0.0	134	132	1.5	70 - 130	30	l,m
Trichloroethene	ND	5.0	119	114	4.3	119	115	3.4	70 - 130	30	
Trichlorofluoromethane	ND	5.0	114	106	7.3	121	116	4.2	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	124	117	5.8	127	121	4.8	70 - 130	30	
Vinyl chloride	ND	5.0	105	102	2.9	114	107	6.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	98	%	99	99	0.0	98	99	1.0	70 - 130	30	
% Dibromofluoromethane	96	%	105	103	1.9	103	102	1.0	70 - 130	30	
% Toluene-d8	99	%	97	98	1.0	98	98	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
October 09, 2020

Friday, October 09, 2020

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GCG88629 - 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 RECAPTURE ***Project Number:***

Laboratory Sample ID(s): CG88629-CG88636 ***Sampling Date(s):*** 10/1/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 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	***VPH and EPH methods only:*** **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 acheived? See Sections: ETPH 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: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Friday, October 09, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

October 09, 2020

SDG I.D.: GCG88629

SDG Comments

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Temperature above 6C:
The samples were received in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection. Therefore no significant bias is suspected.

ETPH Narration

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

QC Batch 547729 (Samples: CG88629, CG88630, CG88631, CG88632, CG88633, CG88634): -----

One or more surrogates is outside of criteria. (% n-Pentacosane)

The blank surrogate was below criteria. (% n-Pentacosane(CG88628))

Instrument:

AU-FID22 10/02/20-1 Jeff Bucko, Chemist 10/02/20

CG88631 (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 (O02A004_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 09/01/20-1 Jeff Bucko, Chemist 09/01/20

CG88632 (1X)

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 (901A003_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 10/02/20-1 Jeff Bucko, Chemist 10/02/20

CG88629 (1X), CG88630 (1X)

The initial calibration (ETPH929I) 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 (O02A003_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 10/02/20-1 Jeff Bucko, Chemist 10/02/20

CG88633 (1X), CG88634 (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 (O02A003_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 547729 (CG88628)

CG88629, CG88630, CG88631, CG88632, CG88633, CG88634

All LCS recoveries were within 60 - 120 with the following exceptions: % n-Pentacosane(48%)
All LCSD recoveries were within 60 - 120 with the following exceptions: None.

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October 09, 2020

SDG I.D.: GCG88629

ETPH Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM69 10/01/20-1 Matt Richard, Chemist 10/01/20

CG88629 (1X), CG88630 (1X), CG88631 (1X), CG88632 (1X), CG88633 (1X), CG88634 (1X)

Initial Calibration Evaluation (CHEM69/69_BN_0910):
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 (CHEM69/1001_03-69_BN_0910):
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 547763 (CG88602)

CG88629, CG88630, CG88631, CG88632, CG88633, CG88634

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

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RCP Certification Report

October 09, 2020

SDG I.D.: GCG88629

VOA Narration

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

QC Batch 547893 (Samples: CG88629, CG88630, CG88631, CG88632, CG88633, CG88634, CG88635, CG88636): -----

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. (Bromoform, Dibromochloromethane)

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. (trans-1,2-Dichloroethene)

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. (2-Hexanone, Acetone, Methyl ethyl ketone, trans-1,4-dichloro-2-butene)

Instrument:

CHEM03 10/01/20-1 Jane Li, Chemist 10/01/20

CG88629 (1X, 50X), CG88630 (1X), CG88631 (1X), CG88632 (1X), CG88633 (1X), CG88634 (1X), CG88635 (50X), CG88636 (1X)

Initial Calibration Evaluation (CHEM03/VT-L092420):
95% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 22% (20%), Acetone 36% (20%), Bromoform 28% (20%), trans-1,4-dichloro-2-butene 28% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: Bromoform 0.073 (0.1), Tetrachloroethene 0.131 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0930_60-VT-L092420):
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 547893 (CG88629) CHEM03 10/1/2020-1

CG88629(1X), CG88630(1X), CG88631(1X), CG88632(1X), CG88633(1X), CG88634(1X), CG88635(50X), CG88636(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(152%), Acetone(162%), Bromoform(136%), Dibromochloromethane(133%), Methyl ethyl ketone(162%), trans-1,4-dichloro-2-butene(135%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(155%), Acetone(162%), Methyl ethyl ketone(167%), 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: 2-Hexanone(147%), Acetone(164%), Methyl ethyl ketone(166%), trans-1,2-Dichloroethene(133%), trans-1,4-dichloro-2-butene(134%)
All MSD recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(145%), Acetone(160%), Methyl ethyl ketone(160%), trans-1,4-dichloro-2-butene(132%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-

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RCP Certification Report

October 09, 2020

SDG I.D.: GCG88629

VOA Narration

160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 17.0C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

17.0° WC IP.

FUSS & O'NEILL
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☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 40868

Turnaround
☒ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
RIVERFRONT RECAPTURE	HARTFORD AND WINDSOR, CT	20170277.A30	PHOENIX

REPORT TO: BRIANNA CHURCH (FTO)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 10/1/2020

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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	CT ETPH	VOCs (8260)	PAHs (8270)	Soil VOA Vial, Methanol	Soil VOA Vial, Water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					1305201001-01	S	10/1/2020	0945	X	X	X			1			2	1					886029
02					-02	↓	↓	0950	X	X	X			↓			↓	↓					886030
03					-03			0955	X	X	X												886031
04					-04			1000	X	X	X												886032
05					-05			1005	X	X	X												886033
06					-06	↓		1010	X	X	X						↓	↓					886034
07					-07	X		1015		X				↓									886035
-08					-08	X	↓	1020		X							2						886036

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	10/1/2020	11:27
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
____ Duplicates 2 Blanks (Item Nos: -07/-08)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GBPMC, ResDEC
Additional Comments:

FUSS & O'NEILL

Appendix B

Boring Logs and Monitoring Well Completion Reports

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

Location ID: SB-01
Sheet #: 1 of 1
Project #: 20170277.A10
Weather: 30s/Overcast

Contractor: Cisco
Operator: CHRIS
F&O Representative: BSC
Drilling Method: Geoprobe
Sampling Method: Dedicated scoop/gloves/terra-cores
Hammer Weight: ____ Hammer Fall (inches): ____

Location Description: Downgradient of Truck Storage Area
Date Started: 4/6/18
Date/Time Completed: 4/6/18 @ 0820
Depth to Saturated Zone: ~11.3

Sample # Prefix: 1305180406- 23

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		48/60	0-0.9	concrete	ND				
			0.9-1	Asphalt					
			1-4	Sand f-m and silt, loose, dry, no odor, light brown/brown					
			4-5	no recovery			-23 0830	6-8	3x VOA 5x 8270
5		46/60	5-7	same as 1-4					
			7-9.8	Same as 1-4, moist					
			9.8-10	no recovery					
10		37/60	10-10.6	same as 7-9.8					
			10.7-10.8	sand f-c, some gravel loose, dry, no odor, grey					
			10.8-11.3	Same as 7-8.3					
			11.3-13.1	Sand f-c and silt, loose, wet, no odor, light brown brown					
			13.1-15	no recovery					
				15' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
1.5	Geoprobe	15'

REMARKS
Field Instrument = PID / OVM
If refusal is encountered, describe all efforts used to confirm.

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 0.2 To 0
Bentonite Grout/Chips ____ To ____
Cuttings/Native Material 15 To 0.2
Other ____ ____ To ____

See Monitoring Well Completion Report

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

Location ID: MW-01
Sheet #: 1 of 1
Project #: 20170277.A10
Weather: 30s overcast

Contractor: Cisco
Operator: CHRIS
F&O Representative: BSC
Drilling Method: Geoprobe
Sampling Method: Dedicated scoop/gloves/terra-cores
Hammer Weight: ____ Hammer Fall (inches): ____

Location Description: E of produce wash bldg
Date Started: 4/6/18
Date/Time Completed: 4/6/18 @ 0845
Depth to Saturated Zone: ~11.5

Sample # Prefix: 1305180406- 24

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		43/60	0-1	Topsoil- sand f-c, some gravel, tr asphalt, tr organics, loose, dry, no odor, brown-reddish brown	ND				
			1-1.2	Asphalt					
			1.2-3.6	Sand f-m, and silt, loose, dry, no odor, light olive brown			-24 0855	10-11.5	3x VOA 4x 6402
			3.6-5	no recovery					
5		48/60	5-7.7	same as 1.2-3.6					
			7.7-9	same as 1.2-3.6, moist, compact					
			7-10	no recovery					
10		50/60	10-10.8	same as 7.7-9					
			10.8-11	Sand f-c, ltl gravel, tr organics, loose, dry, no odor, dark brown					
			11-11.5	same as 7.7-9					
			11.5-14.3	same as 7.7-9, wet					
			14.3-15	no recovery					
				15' EOB					
				~20' END OF MW					

BORING DIAMETER	BORING METHOD	BORING DEPTH
1.5	Geoprobe	15'

REMARKS
Field Instrument = (PID) / 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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips	____	To ____	
Cuttings/~~Native Material~~	____	To ____	
Other ____	____	To ____	

FUSS & O'NEILL

MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

F&O Engineer/Geologist: BSC

Date of Completion: 4/6/18

Well Location Description: E of produce bldg

Drilling Contractor & Name: Cisco - CHRIS

Drilling Method: Geoprobe

Well ID: MW- 01

Project No.: 20170277.A10

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: 1.0 in.

Type: PVC

Stick-up: 0 ft.

SUMP (below screen)

Diameter: — in.

Type: —

Length: — in.

PROTECTIVE CASING

Diameter: 4 in. Type: Road Box / Stand Pipe

Stick-up: 0 ft Length of Casing: 0.5 ft

Seal Material: concrete

SCREEN INTERVALS

Screen Interval: 20-10 ft Diameter: 1.0 in. Slot Size: —

Description: PVC / Other: ____

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

BOREHOLE

Diameter: 1.0 in. Total Boring Depth: 20 ft. Refusal: y / n Depth: — ft.

ANNULAR FILL

(Approximate volumes if available)

SURFACE SEAL

Interval: 0.2-0 ft. Tremied: Y / N Volume: 1/4 bags Description: Concrete / Other: ____

BACKFILL

Interval: 6-0.2 ft. Tremied: Y / N Volume: — bags Description: Bentonite Grout / Cuttings / Sand (#__) / Native Material
Other: ____

LOWER SEAL

Interval: 8-6 ft. Tremied: Y / N Volume: 1/2 bags Description: Bentonite Pellets / Bentonite Chips / Other: ____

FILTER

Interval: 20-8 ft. Tremied: Y / N Volume: 1/2 bags Description: Sand Filter (type: 0) / Other: ____

LOWER BACKFILL

Interval: N/A 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: 4/6/2018

*See Monitoring Well Development Data Sheet for details

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

Location ID: SB-02

Sheet #: 1 of 1

Project #: 20170277.A10

Weather: 30s overcast

Contractor: Cisco

Operator: CHRIS

F&O Representative: BSC

Drilling Method: Geoprobe

Sampling Method: Dedicated scoop/gloves/terra-cores

Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: Downgradient of suppsed septic

Date Started: 4/6/18

Date/Time Completed: 4/6/18 @ 0935

Depth to Saturated Zone: ~11'

Sample # Prefix: 1305180406-25

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		46/60	0-0.4	Topsoil - sand f-c, ltl gravel, tr organics, loose, dry, brown, no odor	ND				
			0.4-0.7	FILL - sand f-c, ltl gravel, tr asphalt loose, dry, brown, no odor					
			0.7-1.2	FILL - Sand f-c, some silt clay, ltl gravel, loose, dry, no odor, red brown					
			1.2-1.6	FILL - Sand f-c, ltl gravel, ltl asphalt, loose, dry, no odor, dark brown			-25 0945	6-8'	2x 6oz
			1.6-3.8	sand f-m and silt, tr gravel/rock, loose, dry, no odor, light olive brown					
			3.8-5	no recovery					
5		42/60	5-5.5	same as 1.6-3.8					
			5.5-10	no recovery					
10		49/60	10-10.8	same as 1.6-3.8					
			10.8-11	sand f-c, some gravel, tr organics, loose, wet, no odor, dark grey brown					
			11-14.1	same as 1.6-3.8, wet					
			14.1-15	no recovery					
				EOB @ 15'					

BORING DIAMETER	BORING METHOD	BORING DEPTH
1.5	Geoprobe	15'

REMARKS

Field Instrument = PID / 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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To	
Cuttings / Native Material	15	To 0	
Other		To	

DUPE

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

Location ID: MW-02

Sheet #: 1 of 1

Project #: 20170277.A10

Weather: 30s overca

Contractor: Cisco

Operator: CHRIS

F&O Representative: BSC

Drilling Method: Geoprobe

Sampling Method: Dedicated scoop/gloves/terra-cores

Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: In truck parking area

Date Started: 4/6/18

Date/Time Completed: 4/6/18 @ 1000

Depth to Saturated Zone: 8 ~11

Sample # Prefix: 1305180406- 26/27

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		49/60	0-3.6	Sand f-c, some gravel, tr coal, tr brick, tr asphalt, loose, dry, no odor, brown	ND				
			3.6-4.1	Sand f-m, some silt/clay, tr gravel, loose, dry, no odor, reddish brown					
			4.1-5	no recovery					
5		43/60	5-5.4	sand f-c, ltl gravel, loose, dry, no odor, brown	ND		-26 1005	-? 10-12.4	3xVOA 4xGBOZ
			5.4-6.3	Same as 3.6-4.1					
			6.3-7.2	sand and silt, grey, loose, dry, no odor					
			7.2-7.5	Sand f-m, some silt, ltl coal, tr brick, tr glass, loose, dry, black, no odor					
			7.5-8.6	Same as 6.3-7.2 ltl coal, tr brick			-27 1015	10-12.4	3xVOA 4xGBOZ
			8.6-10	no recovery					
10		33/60	10-11	sand and silt, loose, dry, grey/green, slight organic odor					
			11-12.4	Same as 10-11, wet					
			12.4-12.8	Sand and silt, loose, wet, no odor, olive brown					
			12.8-15	no recovery					
				15' EOB					
				20' END OF MW					

BORING DIAMETER	BORING METHOD	BORING DEPTH
1.5	Geoprobe	15

REMARKS

Field Instrument = PID / OVM

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

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	_____
Bentonite Grout/Chips	_____	To	_____
Cuttings/Native Material	_____	To	8'
Other _____	_____	To	_____

See Monitoring Well Completion Report

FUSS & O'NEILL

MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

F&O Engineer/Geologist: BSC

Date of Completion: 4/6/18

Well Location Description: truck parking area

Drilling Contractor & Name: Cisco - CARIS

Drilling Method: Geoprobe

Well ID: MW- 02

Project No.: 20170277.A10

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: 1.0 in.

Type: PVC

Stick-up: 0 ft.

SUMP (below screen)

Diameter: — in.

Type: —

Length: — in.

PROTECTIVE CASING

Diameter: 4 in.

Type: Road Box / Stand Pipe

Stick-up: 0 ft

Length of Casing: 0.5 ft

Seal Material: Concrete

SCREEN INTERVALS

Screen Interval: 20-10 ft

Diameter: 1.0 in.

Slot Size: —

Description: PVC / Other:

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

BOREHOLE

Diameter: 1.0 in.

Total Boring Depth: 20 ft.

Refusal: y / n Depth: ft.

ANNULAR FILL

(Approximate volumes if available)

SURFACE SEAL 0.2-0

Interval: 0-0.2 ft.

Tremied: Y / N

Volume: 1/2 bags

Description: Concrete / Other:

BACKFILL

Interval: 6-0.2 ft.

Tremied: Y / N

Volume: — bags

Description: Bentonite Grout / Cuttings / Sand (#__) / Native Material
Other:

LOWER SEAL

Interval: 8-6 ft.

Tremied: Y / N

Volume: 1/2 bags

Description: Bentonite Pellets / Bentonite Chips / Other:

FILTER

Interval: 20-8 ft.

Tremied: Y / N

Volume: 1/2 bags

Description: Sand Filter (type:) 0 / 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: 4/6/2018

*See Monitoring Well Development Data Sheet for details

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

Location ID: SB-03
Sheet #: 1 of 1
Project #: 20170277.A10
Weather: 30s, snow

Contractor: Cisco
Operator: CHRIS
F&O Representative: BSC
Drilling Method: Geoprobe
Sampling Method: Dedicated scoop/gloves/terra-cores
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: Rear of former residence
Date Started: 4/6/18
Date/Time Completed: 4/6/18 @ 1105
Depth to Saturated Zone: ~16.3
Sample # Prefix: 1305180406- 28

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		43/60	0-0.4	Topsoil - Sand f-c, ltl gravel, ltl organics, loose, dry, no odor brown w/black staining	ND				
			0.4-0.5	Concrete					
			0.5-3.6	Sand f-m and silt; loose, dry, no odor olive-orange/brown tr organics			-28 1115	0.5-1.5	3x VOA 5x G40Z
			3.6-5	no recovery					
5		48/60	5-9	same as 0.5-3.6					
			9-10	no recovery					
			10-11.5	same as 0.5-3.6, tr brick					
10		54/60	11.5-14.1	same as 0.5-3.6					
			14.1-14.5	sand f-c, loose, dry, no odor, orange/brown					
			14.5-15	no recovery					
15		37/60	15-16.3	same as 14.1-14.5	ND				
			16.3-17.2	same as 14.1-14.5, wet					
			17.2-18.2	sand and silt tr rock, loose, wet, no odor reddish brown					
			18.2-20	no recovery					
				20' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
1.5	Geoprobe	20'

REMARKS
Field Instrument = PID / OVM
If refusal is encountered, describe all efforts used to confirm.

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	20'	To 0	
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

Location ID: SB-07
Sheet #: 1 of 1
Project #: 20170277.A10
Weather: 30s, snow

Contractor: Cisco
Operator: CTRES
F&O Representative: BSC
Drilling Method: Geoprobe
Sampling Method: Dedicated scoop/gloves/terra-cores
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: W of barn
Date Started: 4/6/18
Date/Time Completed: 4/6/18 @ 1120
Depth to Saturated Zone: ~15.8
Sample # Prefix: 1305180406- 29/30

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		43/60	0 - 0.1	Topsoil - sand f-m and silt, ltd organics, loose, dry, no odor, golden brown	ND				
			0.1-0.9	Sand f-m and silt, loose, dry, no odor, golden brown, tr organics					
			0.9-3.6	Same as 0.1-0.9, no organics, light olive brown					
			3.6-5	no recovery					
5		53/60	5-9.3	Same as 0.9-3.6			-29 1130	0.1-0.9	2x 6402
			9.3-10	no recovery			-30 1140	5-6	2x 6402
10		42/60	10-11	same as 0.9-3.6					
			11-13.4	same as 0.9-3.6, sand f-c					
			13.4-13.5	rock					
			13.5-15	no recovery					
15		47/60	15-15.8	Same as 0.9-3.6					
			15.8-18.9	sand f-m and silt/clay, ltd rock, loose, wet, no odor, red brown					
			18.9-20	no recovery					

BORING DIAMETER	BORING METHOD	BORING DEPTH
1.5	Geoprobe	20

REMARKS
Field Instrument =
(PID) / 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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips	_____	To _____	
Cuttings/Native Material	20	To 0	
Other _____	_____	To _____	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

Location ID: MW-03
Sheet #: 1 of 1
Project #: 20170277.A10
Weather: 36S, Snow

Contractor: Cisco
Operator: ENRIS
F&O Representative: BSC
Drilling Method: Geoprobe
Sampling Method: Dedicated scoop/gloves/terra-cores
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: FH area SW portion of Site
Date Started: 4/6/18
Date/Time Completed: 4/6/18 @ 1200
Depth to Saturated Zone: ~ 3.4
Sample # Prefix: 1305180406- 31

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		46/60	0-0.8	Sand f-c, ltl gravel, tr brick, tr organics, loose, dry, no odor brown	ND				
			0.8-1.8	sand f-m and silt, tr brick tr coal, loose, dry, no odor, olive brown			-31 1220	0-0.8	3x VOA 3x G40z
			1.8-3.4	sand f-m, silt/clay, tr brick, tr coal organic odor, tr wood, loose, dry.					
			3.4-3.8	same as 1.8-3.4, wet					
			3.8-5	no recovery					
5		37/60	5-6.5	Same as 3.4-3.8, ltl gravel			-32 1230	1.5-3	3x VOA 3x G40z
			6.5-6.8	concrete					
			6.8-6.9	Sand f-m and silt, some gravel, loose, wet, no odor, red-brown					
			6.9-7.2	concrete					
			7.2-8.1	Sand, f-m and silt, tr gravel, ltl brick, compact, wet, no odor					
			8.1-10	no recovery					
10		46/60	10-10.6	sand and silt, fine, very loose, wet no odor					
			10.6-11	same as 10-10.6, and gravel, tr wood					
			11-13.8	weathered rock, wet/red, no odor					
			13.8-15	no recovery					
				15' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
1.5	Geoprobe	15

REMARKS
Field Instrument = (PID) / OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material		To	
Other		To	

FUSS & O'NEILL

MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

F&O Engineer/Geologist: BSC

Date of Completion: 4/6/18

Well Location Description: FU area SW portion of Site

Drilling Contractor & Name: Cisco - CHRIS

Drilling Method: Geoprobe

Well ID: MW- 03

Project No.: 20170277.A10

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: 1.0 in.

Type: PVC

Stick-up: 0 ft.

SUMP (below screen)

Diameter: — in.

Type: —

Length: — in.

PROTECTIVE CASING

Diameter: 4 in. Type: Road Box / Stand Pipe

Stick-up: 0 ft Length of Casing: 0.5 ft

Seal Material: concrete

SCREEN INTERVALS

Screen Interval: 12-2 ft Diameter: 1.0 in. Slot Size: —

Description: PVC / Other: ___

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

BOREHOLE

Diameter: 1.0 in. Total Boring Depth: 12 ft. Refusal: Y / N Depth: 12 ft.

ANNULAR FILL

(Approximate volumes if available)

SURFACE SEAL

Interval: 0.2-0 ft. Tremied: Y / N Volume: 1/2 bags Description: Concrete / Other: ___

BACKFILL

Interval: 6-0.2 ft. Tremied: Y / N Volume: — bags Description: Bentonite Grout / Cuttings / Sand (#___) / Native Material
Other: ___

LOWER SEAL

Interval: 8-6 ft. Tremied: Y / N Volume: 1/2 bags Description: Bentonite Pellets / Bentonite Chips / Other: ___

FILTER

Interval: 12-8 ft. Tremied: Y / N Volume: 1/2 bags Description: Sand Filter (type:) 0 / 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: ~~4/6/2018~~ 6/12/2018

*See Monitoring Well Development Data Sheet for details

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

Location ID: MW-04

Sheet #: 1 of 1

Project #: 20170277.A10

Weather: 30s snow

Contractor: Cisco

Operator: CHRIS

F&O Representative: BSC

Drilling Method: Geoprobe

Sampling Method: Dedicated scoop/gloves/terra-cores

Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: E limits of ag field

Date Started: 4/6/18

Date/Time Completed: 4/6/18 @ 1400

Depth to Saturated Zone: ~10'

Sample # Prefix: 1305180406- 33/34

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		51/60	0-3.25	sand fine and silt, loose, dry, no odor brown	ND				
		0-	3.25-4.25	same as 0-3.25, moist					
			4.25-5	no recovery					
5		48/60	5-7	same as 3.25-4.25, some clay					
			7-9	same as 3.25-4.25					
10		53/60	9-10	no recovery					
			10-14.4	same as 3.25-4.25, wet					
			14.4-15	no recovery			-33 1405	0-0.5	2x 6402
			15' EOB				-34 1410	1-2	2x 6402

BORING DIAMETER	BORING METHOD	BORING DEPTH
1.5	Geoprobe	15

REMARKS

Field Instrument = PID / OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material		To	
Other		To	

FUSS & O'NEILL

MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: Riverfront Recapture

Project Location: Hartford & Windsor

F&O Engineer/Geologist: BSC

Date of Completion: 4/6/18

Well Location Description: E limits of ag field

Drilling Contractor & Name: Cisco - CHRIS

Drilling Method: Geoprobe

Well ID: MW- 04

Project No.: 20170277.A10

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: 1.0 in.

Type: PVC

Stick-up: ~3.5 ft.

SUMP (below screen)

Diameter: — in.

Type: —

Length: — in.

PROTECTIVE CASING

Diameter: 4 in.

Type: Road Box / Stand Pipe

Stick-up: ~3.5 ft

Length of Casing: 3.9 ft

Seal Material: CONCRETE

SCREEN INTERVALS

Screen Interval: 19 - 9 ft

Diameter: 1.0 in.

Slot Size: —

Description: PVC / Other:

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

BOREHOLE

Diameter: 1.0 in.

Total Boring Depth: 19 ft.

Refusal: y / n Depth: — ft.

ANNULAR FILL

(Approximate volumes if available)

SURFACE SEAL

Interval: 0.2-0 ft.

Tremied: Y / N

Volume: 1/2 bags

Description: Concrete / Other:

BACKFILL

Interval: 6-0.2 ft.

Tremied: Y / N

Volume: — bags

Description: Bentonite Grout / Cuttings / Sand (#__) / Native Material
Other:

LOWER SEAL

Interval: 8-6 ft.

Tremied: Y / N

Volume: 1/2 bags

Description: Bentonite Pellets / Bentonite Chips / Other:

FILTER

Interval: 19-8 ft.

Tremied: Y / N

Volume: 1/2 bags

Description: Sand Filter (type:) 0 / 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: 4/6/2018

*See Monitoring Well Development Data Sheet for details

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture – Russo Properties

Project Location: Windsor, CT

Location ID: SB-C5
Sheet #: 1 of 1
Project #: 20170277.A20
Weather: Cloudy, 40s

Contractor: Cisco
Operator: Pete + Julio
F&O Representative: SJF
Drilling Method: Geoprobe 7822DT
Sampling Method: MacroCore
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: REC07 - Center of Building
Date Started: 10/25/18
Date/Time Completed: 10/25/18 @ 905
Depth to Saturated Zone: NA
Sample # Prefix: 153418102S - 60

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	N/A	45/60	0-0.25	Concrete	ND	CR			
			0.25-0.7	SAND (f-r), some asphalt, loose, black, dry, no odor	ND	FI	-060 912	0.5-2	1x 8oz G
			0.7-3.9	SAND (f-m), ltl silt, loose, dry, tannish brown, dry no odor	ND	SP			
			3.9-5	No Recovery					
5	N/A	51/60	5-9.25	SAA					
			9.25-10	No Recovery					
10	N/A	51/60	10-13.5	SAA, compact, [redacted]	ND	SP			
			13.5-14.25	SAND (f-r), compact, brown to reddish brown, moist, no odor	ND	SW			
			14.25-15	No Recovery					
			15	End of Boring - No Refusal					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	10

REMARKS
Field Instrument = PID / OVM
If refusal is encountered, describe all efforts used to confirm.

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings / Native Material	15	To 0	
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture – Russo Properties

Project Location: Windsor, CT

Location ID: SB-06
Sheet #: 1 of 1
Project #: 20170277.A20
Weather: Cloudy, 40s

Contractor: Cisco
Operator: Pete + Julio
F&O Representative: SJF
Drilling Method: Geoprobe 7822DT
Sampling Method: Macrocore
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: ~~SB-06~~ RECO7-SE of SB-01
Date Started: 10/25/18
Date/Time Completed: 10/25/18 @ 940
Depth to Saturated Zone: NA
Sample # Prefix: 15341810 25-61

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	N/A	51/60	0-0.25	Concrete	ND	CR			
			0.25-0.6	SAND (fr), some asphalt, tr. gravel, black, loose, dry, no odor	ND 0.2	FI	-61	0.25-2	8oz G
			0.6-4.25	SAND (f-m), slight compact, tanish brown, dry, no odor	ND	SP	945		
			4.25-5	No Recovery					
5	N/A	54/60	5-9.5	SAA	ND	SP			
			9.5-10	No Recovery					
10	N/A	42/60	10-13.5	SAA, moist at 12.5'	ND	SP			
			13.5-15	No Recovery					
			15	End of boring - No Refusal					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	15'

REMARKS
Field Instrument = PID / OVM
If refusal is encountered, describe all efforts used to confirm.

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	15	To 0	
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture – Russo Properties

Project Location: Windsor, CT

Location ID: SB-07
Sheet #: 1 of 1
Project #: 20170277.A20
Weather: Cloudy, 40s

Contractor: Cisco
Operator: Pete + Julio
F&O Representative: SJF
Drilling Method: Geoprobe 7822DT
Sampling Method: Macrocore
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: REC 07 - N of SB-01 near trees
Date Started: 10/25/18
Date/Time Completed: 10/25/18 @ 1005
Depth to Saturated Zone: NA
Sample # Prefix: 153418103S- 62, 63 (DUP)

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	N/A	51/60	0-0.25	Concrete	NO	CC			
			0.25-0.5	SAND (f-c), some asphalt, black, dry, no odor	NO	FI	-62 1000	0.25-2	8oz G
			0.5-4.25	SAND (f-m), loose, dry, tannish brown, no odor	NO	SP	-63 1002	0.25-2 (DUP)	↓
			4.25-5	No Recovery					
5	N/A	51/60	5-9.25	SAA	NO	SP			
			9.25-10	No Recovery					
10	N/A	60/60	10-13	SAA	NO	SP			
			13-15	SAND (f-m), compact, moist, reddish brown, no odor	NO	SW			
			15	End of Boring					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	15'

REMARKS
Field Instrument = PID / OVM
If refusal is encountered, describe all efforts used to confirm.

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	15	To 0	
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture – Russo Properties

Project Location: Windsor, CT

Location ID: SB-08
Sheet #: 1 of 1
Project #: 20170277.A20
Weather: Cloudy, 50's

Contractor: Cisco
Operator: Pete + Julio
F&O Representative: SJF
Drilling Method: Geoprobe 7822DT
Sampling Method: Macrocore
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: REC 07 - East end of central bldg
Date Started: 10/25/18
Date/Time Completed: 10/25/18 @ 1035
Depth to Saturated Zone: NA
Sample # Prefix: 153418102S - 64

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	N/A	54/60	0-0.25	Concrete	ND	CR			
			0.25-0.4	SAND (f-c), some asphalt millings, black, dry, loose, no odor	ND	FI	-64	0.25-2	8oz G
			0.4-4.5	SAND (f-m), loose, tannish brown, dry, no odor	ND	SP	1040		
			4.5-5	No Recovery					
5	N/A	48/60	5-7.5	SAA	ND	SP			
			7.5-9	SAND (f-c), loose, tannish brown, dry, no odor					
			9-10	No Recovery					
10	N/A	48/60	10-12.5	~~Sand (f~~ SAA	ND	SP			
			12.5-14	SAND (f-c), Compact, moist, reddish brown, no odor	ND	SW			
			14-15	No Recovery					
			15	End of Boring					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	15'

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:

REMARKS
Field Instrument = (PID)/OVM
If refusal is encountered, describe all efforts used to confirm.

Field Decon: Yes / No / (Dedicated Device)

BACKFILL

Asphalt / Concrete	_____	To _____	See Monitoring Well Completion Report
Bentonite Grout/Chips	_____	To _____	
Cuttings/(Native Material)	15	To 0	
Other _____	_____	To _____	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture – Russo Properties

Project Location: Windsor, CT

Location ID: SB-09 / MW-05
Sheet #: 1 of 1
Project #: 20170277.A20
Weather: Cloudy, 50°

Contractor: Cisco
Operator: Pete + Julio
F&O Representative: SJF
Drilling Method: Geoprobe 7822DT
Sampling Method: Macro Core
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: REC-06 - SE corner of building
Date Started: 10/25/18
Date/Time Completed: 10/25/18 @ 1200
Depth to Saturated Zone: 17.5'
Sample # Prefix: 1534181025 - 65

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	N/A	54/60	0-0.5	SAND (f-m), tr. organics, roots, tanish brown, dry, loose, no odor	ND	SP			
			0.5-4.5	SAND (f-m), loose, tanish brown, dry, no odor	NO	SP	-65 1205	2-4	8oz G
			4.5-5	No Recovery					
5	N/A	57/60	5-9.75	SAA	ND	SP			
			9.75-10	No Recovery					
10	N/A	42/60	10-11.5	SAA	ND	SP			
			11.5-12.7	SAND (f-m), little gravel, compact, reddish brown, dry, no odor	ND	SW			
			12.7-13.5	SAND (f), little silt, reddish brown, compact, no odor	NO	SM			
			13.5-15	No Recovery					
15	N/A	42/60	15-18.5	SAA, wet at 17.5'	ND	SM			
			18.5-20	No Recovery					
			20'	Refusal - End of Boring					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	20'

REMARKS
Field Instrument = PID/OVM

If refusal is encountered, describe all efforts used to confirm.
Moved to new location, hit refusal at a similar depth

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	_____
Bentonite Grout/Chips	_____	To	_____
Cuttings / ~~Native Material~~	_____	To	_____
Other _____	_____	To	_____

See Monitoring Well Completion Report

FUSS & O'NEILL

MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: Riverfront Recapture – Russo Properties
Well ID: MW-05
Project Location: Windsor, CT
Project No.: 20170277.A20
F&O Engineer/Geologist: SJF
Ground Surface Elevation:
Date of Completion: 10/25/18
Permit #:
Well Location Description: REC 06 – East side of existing building
E1 Top of Steel Casing:
Drilling Contractor & Name: Cisco Pete + Julio
E1 Top of PVC Casing:
Drilling Method: Geoprobe 7822DT
Measuring Point: TPS / PVC
Well Cover (see codes):

WELL CONSTRUCTION

WELL CASING/RISER
Diameter: 2 in.
Type: PVC
Stick-up: 2 ft.

SUMP (below screen)
Diameter: 2 in.
Type: PVC
Length: 4 in.

PROTECTIVE CASING
Diameter: 4 in.
Type: Road Box / (Stand Pipe)
Stick-up: 3 ft.
Length of Casing: 5 ft.
Seal Material:

SCREEN INTERVALS
Screen Interval: 19 – 9 ft
Diameter: 2 in.
Slot Size: 10
Description: (PVC) / Other: PVC Ap-pallc
Type: Perforated / Slotted / Wire-Wrap / (Pre-Pack) / Other:

BOREHOLE
Diameter: 4 in.
Total Boring Depth: 19 ft.
Refusal: (y) / n Depth: ~19 ft.

ANNULAR FILL

SURFACE SEAL (Approximate volumes if available)
Interval: ft. Tremied: Y / N Volume: bags Description: Concrete / Other:

BACKFILL
Interval: 6 – 0 ft. Tremied: Y / N Volume: bags Description: Bentonite Grout / Cuttings / (Sand (#00)) / Native Material
Other:

LOWER SEAL
Interval: 7 – 6 ft. Tremied: Y / N Volume: bags Description: Bentonite Pellets / (Bentonite Chips) / Other:

FILTER
Interval: 19 – 7 ft. Tremied: Y / N Volume: bags Description: Sand Filter (type:) 00 N / 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: 10/25/18

*See Monitoring Well Development Data Sheet for details

Monitoring Well Development Log

Client/Project Name: Riverfront Recapture – Russo Properties	FUSS & O'NEILL
Project Location: Windsor, CT	
PROJECT #: 20170277.A20	
WELL ID#: MW-05	

Elevation Data

Date: 10/25/18		Time: 1511		Well Diameter (inches): 2
	Depth (feet)	+ Correction	= True Depth	Sampler: SJF
Water Level PVC	17.2	+ 0	= 17.2	Measuring Device ID#:
Water Level TPS	17.4	+ 0	= 17.4	Weather: Partly cloudy, high 40's
Bottom of Well	21.9	+ 0	= 21.9	

Comments:

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)

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: Rodents / Insects / (None)
Curb Box: Y / (N) (key is: Hex/Pent/Other)
Curb Box Gasket: OK / Replace / Other _____

Comments:

Purge Data

Start Time	Stop Time	Volume Purged (Gallons / Liters)	Purge Device Used	Turbitity (NTU)	Comments
1515	1545	3	Surge block then peristaltic pump	140.5	purge water initially reddish brown, cleared up

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Recapture – Russo Properties

Project Location: Windsor, CT

Location ID: SB-10 / MW-06
Sheet #: 1 of 1
Project #: 20170277.A20
Weather: cloudy, 40's

Contractor: Cisco
Operator: Pete + Julio
F&O Representative: SJF
Drilling Method: Geoprobe 7822DT
Sampling Method: Macrocore
Hammer Weight: _____ Hammer Fall (inches): _____

Location Description: REC 05 - SE edge of cornfield
Date Started: 10/25/18
Date/Time Completed: 10/25/18 @ 1605
Depth to Saturated Zone: 10.5'
Sample # Prefix: 153418125 - 66

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	N/A	42/60	0-0.5	SAND (f-m), tr. organics, slightly compact, dry, brown, no odor	ND	SP	-66	0-1	8026
			0.5-3.5	SAND (f-m), compact, brown, dry, no odor	ND	SP	1606		
			3.5-5	No Recovery					
5	N/A	54/60	5-9.5	SAND (f-m), tr. silt, compact, moist starting at 7', no odor, tarnish brown	ND	SP			
			9.5-10	No Recovery					
10	N/A	60/60	10-14	SAA, wet at 10.5'	ND	SP			
			14-15	SAND (m-c), brown, loose, wet, no odor	ND	SW			
			15	End of Boring - No Refusal					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	15'

REMARKS
Field Instrument = PID / OVM
If refusal is encountered, describe all efforts used to confirm.

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

FUSS & O'NEILL

MONITORING WELL COMPLETION REPORT

GENERAL INFORMATION

Project Name: Riverfront Recapture – Russo Properties

Well ID: MW-06

Project Location: Windsor, CT

Project No.: 20170277.A20

F&O Engineer/Geologist: SJF

Ground Surface Elevation: _____

Date of Completion: 10/25/18

Permit #: _____

Well Location Description: SE portion of corn field

E1 Top of Steel Casing: _____

Drilling Contractor & Name: Cisco Pete + Julio

E1 Top of PVC Casing: _____

Drilling Method: Geoprobe 7822DT

Measuring Point: TPS / PVC
Well Cover (see codes): _____

WELL CONSTRUCTION

WELL CASING/RISER

Diameter: 2 in.

Type: PVC

Stick-up: 3 ft.

SUMP (below screen)

Diameter: 2 in.

Type: PVC

Length: 4 in.

PROTECTIVE CASING

Diameter: 4 in. Type: Road Box / Stand Pipe

Stick-up: 3 ft Length of Casing: 3.5 ft

Seal Material: Concrete

SCREEN INTERVALS

Screen Interval: 15-5 ft Diameter: 2 in. Slot Size: 10

Description: PVC / Other: _____

Type: Perforated / Slotted / Wire-Wrap / Pre-Packs / Other: _____

BOREHOLE

Diameter: 2 in. Total Boring Depth: 15 ft. Refusal: y / (n) Depth: _____ ft.

ANNULAR FILL

SURFACE SEAL (Approximate volumes if available)

Interval: 0.3-0 ft. Tremied: Y / N Volume: _____ bags Description: Concrete / Other: _____

BACKFILL

Interval: 0.5-0.3 ft. Tremied: Y / N Volume: _____ bags Description: Bentonite Grout / Cuttings / Sand (#OCJ) / Native Material
Other: _____

LOWER SEAL

Interval: 1.5-0.5 ft. Tremied: Y / N Volume: _____ bags Description: Bentonite Pellets / Bentonite Chips / Other: _____

FILTER

Interval: 15-1.5 ft. Tremied: Y / N Volume: _____ bags Description: Sand Filter (type: OCJ N) / 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: 10/25/18

*See Monitoring Well Development Data Sheet for details

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Land, Inc.

Project Location: Hartford/Windsor, CT

Location ID: SB- 30
Sheet #: 1 of
Project #: 20170277.A30
Weather: 30s, clear

Contractor: Cisco
Operator: DAN + PAT
F&O Representative: BSC & CJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: see map
Date Started: 3/5/2021
Date/Time Completed: 3/5/2021 @ 0815
Depth to Saturated Zone: 7.0'

Sample # Prefix: 1305210305- 01

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	N/A	48/60	0-1.7	Fill- sand f-m, tr asphalt, tr brick, ltl gravel, loose, dry. no odor, brown	1.8	FI	-01 0815	0-2	2x G8oz
			1.7-3.1	Fill- sand f-m, tr asphalt, tr brick, ltl gravel, tr silt, loose, dry, no odor, reddish brown	2.2	FI			
			3.1-4	sand f-m, tr silt, tr gravel, loose, dry, no odor, reddish brown	1.8	FI			
			4-5	no recovery					
5		51/60	5-5.3	sand f-c, tr brick, tr gravel, loose dry, no odor, brown	1.5	FI			
			5.3-6.3	sand f-c, tr gravel, ltl asphalt, loose, dry, no odor, black	1.5	FI			
			6.3-7.1	sand f-m, ltl silt, tr gravel, tr asphalt, loose, dry, no odor, brown	1.5	FI			
			7.1-9.2	sand f-m ltl silt, loose, dry, no odor, tan	1.3	SM			
			9.2-10	no recovery					
				10' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	10'

REMARKS
Field Instrument = PID / 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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To	
Cuttings / Native Material	10	To 0	
Other		To	

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FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Land, Inc.

Project Location: Hartford/Windsor, CT

Location ID: SB- 31
Sheet #: 1 of
Project #: 20170277.A30
Weather: 30s, clear

Contractor: Cisco
Operator: DAN + PAT
F&O Representative: BSC & CJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See Map
Date Started: 3/5/2021
Date/Time Completed: 3/5/2021 @ 0830
Depth to Saturated Zone: >10'
Sample # Prefix: 1305210305- 02

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	N/A	43/60	1-1.5	sand f-c, ltl gravel, tr brn Cl, tr asphalt, tr organics, loose, dry, no odor, reddish brown	N/A	FI			
			1.5-1.8	Sand f-c, loose, dry, no odor, ltl gravel, ltl asphalt, black		FI	-02 0830	0.4-2.4	2x G8oz
			1.8-2.2	Sand f-c little gravel trace asphalt loose dry no odor reddish brown		FI			
			2.2-2.3	wood		FI			
			2.4-3.5	Sand f-m trace silt, trace gravel, trace asphalt, loose, dry, no odor brown		FI			
			3.5-5	no recovery					
5		18/60	5-5.7	Sand f-m, trace silt, brick, asphalt, organics loose moist, no odor, brown		FI			
			5.7-6.5	Sand f-m little gravel, trace silt, loose, dry no odor, reddish brown		FI			
			6.5-10	no recovery					
				10' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	10'

REMARKS
Field Instrument = PID/OVM
If refusal is encountered, describe all efforts used to confirm.
PID stopped working
Field Decon: Yes / No / Dedicated Device

PROPORTIONS USED:
Trace (tr) 0 to 10%
Little (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To		
Cuttings/Native Material	10	To	0	
Other		To		

Scanned with CamScanner

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Land, Inc.

Project Location: Hartford/Windsor, CT

Location ID: SB-32
Sheet # 1 of
Project 20170277.A30
Weather: 30s, clear

Contractor: Cisco
Operator: DAN + PAT
F&O Representative: BSC & CJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See map
Date Started: 3/5/2021
Date/Time Completed: 3/5/2021 @ 0840
Depth to Saturated Zone: 5'

Sample # Prefix: 1305210305- 03

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	N/A	48/60	0-0.5	Sand f-c, little gravel, tr organics, loose, dry, brown, no odor	N/A	FI			
			0.5-3.2	Sand f-m, tr silt, tr gravel, tr brick, tr asphalt, loose, dry reddish brown no odor		FI	03 0835	0-2	2x G8oz
			3.2-3.8	same as above, moist		FI			
			3.8-4	rock					
			4-5	no recovery					
5		27/60	5-7.3	Sand f, trace silt, loose, wet, no odor, tan		SP			
			7.3-10	no recovery					
				10' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	GEOPROBE	10'

REMARKS
Field Instrument = PID/OVM
If refusal is encountered, describe all efforts used to confirm.
PID Not working
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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	10	To 0	
Other		To	

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FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Land, Inc.

Project Location: Hartford/Windsor, CT

Location ID: SB-33
Sheet #: 1 of
Project #: 20170277.A30
Weather: 30s, clear

Contractor: Cisco
Operator: LAN-FAT
F&O Representative: BSC & CJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See map
Date Started: 3/5/2021
Date/Time Completed: 3/5/2021 @ 0900
Depth to Saturated Zone: ~5.7'
Sample # Prefix: 1305210305- 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	N/A	45/60	0-0.7	Sand f-c, tr gravel, tr organics loose, dry, brown, no odor	N/A	FI			
			0.7-2.8	Sand f-c, tr silt, ltl gravel, tr brick, tr asphalt, loose, dry, no odor, reddish brown		FI	-05 0900	0-2 2-5 5-6.2	2x G8oz
			2.8-3.7	Same as above, moist		FI			
			3.7-5	no recovery					
5		27/60	5-5.5	Same as 2.8-3.7		FI			
			5.5-5.7	Sand f-c, loose, moist, no odor, reddish brown, tr gravel		FI			
			5.7-6.2	Sand f-m, tr silt, loose wet, no odor, brown		SM			
			6.2-7.2	Sand f-m, ltl gravel, loose moist no odor tr silt		↓			
	↓		7.2-10	no recovery.	↓				
				10' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	10'

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

REMARKS
Field Instrument = (PID)/OVM
If refusal is encountered, describe all efforts used to confirm.
PID NOT WORKING
Field Decon: Yes / No / (Dedicated Device)

BACKFILL

Asphalt / Concrete		To	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/(Native Material)	10	To 0	
Other		To	

Scanned with CamScanner

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront Land, Inc.

Project Location: Hartford/Windsor, CT

Location ID: SB-34
Sheet #: 1 of
Project #: 20170277.A30
Weather: 20s, clear

Contractor: Cisco
Operator: DAN + PAT
F&O Representative: BSC & CJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See map
Date Started: 3/5/2021
Date/Time Completed: 3/5/2021 @ 0840
Depth to Saturated Zone: ~5'
Sample # Prefix: 1305210305- 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	N/A	36/60	0-0.3	Topsoil Sand f-c, loose, dry, no odor, tr organics, tr gravel	N/A	FI			
			0.3-1.6	Sand f-c, tr gravel, tr asphalt, loose, dry, no odor reddish br		FI	-06 0840	0-1.6	2x G8oz
			1.6-3	Sand f, some Silt/clay, loose, moist, no odor, tan		SM			
			3-5	no recovery					
5		39/60	5-7	Same as 1.6-3, wet		SM			
			7-8.1	Sand f-c, loose, moist, no odor, tan		SP			
			8.1-10	no recovery					
				10' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Geoprobe	10'

REMARKS
Field Instrument = PID/OVM NOT WORKING
If refusal is encountered, describe all efforts used to confirm.
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 ____
Bentonite Grout/Chips ____ To ____
Cuttings/Native Material 10 To 0
Other ____ ____ To ____
See Monitoring Well Completion Report

Scanned with CamScanner

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Land, Inc.

Project Location: Hartford/Windsor, CT

Location ID: SB- 35
Sheet #: 1 of
Project #: 20170277.A30
Weather: 20s, clear

Contractor: Cisco
Operator: VAN + INT
F&O Representative: BSC & CJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See Map
Date Started: 3/5/2021
Date/Time Completed: 3/5/2021 @ 0945
Depth to Saturated Zone: ~5.7'
Sample # Prefix: 1305210305- 07

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	N/A	4/60	0-0.7	Sand f, some silt, tr gravel, tr asphalt, loose, dry, brown, no odor	N/A	FI	-07		
			0.7-2	Sand f-m, some silt, loose, dry, tan, no odor		SM	0945	0-2	2x G8oz
			2-3	Silt, some Sand f, loose, dry no odor, tan		SM			
			3-3.4	silt/clay, loose, moist, tan, no odor		M			
			3.4-5	no recovery					
5		33/60	5-5.7	Same as 3-3.4'		M			
			5.7-6.7	Silt, some clay, loose, wet, tan no odor		SM			
			6.7-7.8	Silt, some Sand f-m, loose, wet, tan, no odor		M			
			7.8-10	no recovery 10' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	GEOPROBE	10'

REMARKS
Field Instrument = If refusal is encountered, describe all efforts used to confirm.
(PID)/OVM
PID NOT WORKING
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		See Monitoring Well Completion Report
Bentonite Grout/Chips		To		
Cuttings/(Native Material)	10	To	0	
Other		To		

Scanned with CamScanner

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront Land, Inc.

Project Location: Hartford/Windsor, CT

Location ID: SB-36
Sheet #: 1 of
Project #: 20170277.A30
Weather: 20s, clear

Contractor: Cisco
Operator: DAN + PAT
F&O Representative: BSC & CJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See Map
Date Started: 3/5/2021
Date/Time Completed: 3/5/2021 @ 0950
Depth to Saturated Zone: >10'
Sample # Prefix: 1305210305- 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	N/A	37/60	0-0.3	Topsoil sand f-c, tr organics, loose, dry, brown, no odor	N/A	FI			
			0.3-2.3	sand f-c, ltl gravel, tr brick & asphalt, loose, dry, no odor grey		FI	-08 0950	0.3-2.3	2x G8oz
			2.3-3.1	sand f-m, some silt, loose, dry, no odor, tr gravel, asphalt, grey		FI			
			3.1-5	no recovery					
5		26/60	5-7.2	same as 2.3-3.1, Moist, tr brick		FI			
			7.2-10	no recovery					
				10' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	GEOPROBE	10'

REMARKS
Field Instrument = PID/OVM
If refusal is encountered, describe all efforts used to confirm.
PID NOT WORKING
Field Decon: Yes / No / Dedicated Device

PROPORTIONS USED:
Trace (tr) 0 to 10%
Little (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	10	To 0	
Other		To	

Scanned with CamScanner

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront Land, Inc.

Project Location: Hartford/Windsor, CT

Location ID: SB-307
Sheet #: 1 of
Project #: 20170277.A30
Weather: 20s, clear

Contractor: Cisco
Operator: DAN + PAT
F&O Representative: BSC & CJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: See Map
Date Started: 3/5/2021
Date/Time Completed: 3/5/2021 @ 1000
Depth to Saturated Zone: 7.0'
Sample # Prefix: 1305210305-09

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	N/A	32/60	0-1.4	Sand and gravel, tr asphalt, tr brick, loose, dry, brown. no odor	N/A	FI			
			1.4-2.7	Sand f-c, tr silt, tr gravel, tr asphalt, loose, dry, no odor reddish brown		FI	-09 1000	0-2	2x G8oz
			2.7-5	No recovery					
5		24/60	5-6.7	Silt / clay, tr sand f tr gravel, tr asphalt, loose, moist, grey, no odor		FI			
			6.7-10	no recovery					
				10' EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	GEOPROBE	10'

REMARKS
Field Instrument = (PID)/OVM
PID NOT WORKING
Field Decon: Yes / No / (Dedicated Device)

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

PROPORTIONS USED:
Trace (tr) 0 to 10%
Little (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To		
Cuttings / (Native Material)	0	To	6	
Other		To		

Scanned with CamScanner

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 01 Sample Location ID: SB 36E	Container	Quantity	Preservative
Sample Location Description: 5 ft East of center Sampler: CAJ Time: 0912 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Geoprobe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: PetroFLAG/OVM	8oz G	1	As is

Sample #: 1643210914- 02 Sample Location ID: SB-36J	Container	Quantity	Preservative
Sample Location Description: 30 ft South Sampler: CAJ Time: 0913 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill F-C Sample Depth: 0-2 PetroFLAG/OVM N/A	8oz G	1	As is

Sample #: 1643210914- 03 Sample Location ID: SB-36J	Container	Quantity	Preservative
Sample Location Description: 30 ft South Sampler: CAJ Time: 0915 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill F-C Sample Depth: 2-4 PetroFLAG/OVM N/A			

Sample #: 1643210914- 04 Sample Location ID: SB-36J	Container	Quantity	Preservative
Sample Location Description: 30 ft South Sampler: CAJ Time: 0917 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill F-C Sample Depth: 4-6 PetroFLAG/OVM N/A			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 05 Sample Location ID: SB36K	Container	Quantity	Preservative
Sample Location Description: 10ft SE Sampler: CAJ Time: 0922 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Geoprobe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM	8oz Glass	1	As is

Sample #: 1643210914- 06 Sample Location ID: SB36K	Container	Quantity	Preservative
Sample Location Description: 10ft SE Sampler: CAJ Time: 0923 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM N/A			

Sample #: 1643210914- 07 Sample Location ID: SB36K	Container	Quantity	Preservative
Sample Location Description: Sampler: CAJ Time: 0924 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM N/A			

Sample #: 1643210914- 08 Sample Location ID: SB 36D	Container	Quantity	Preservative
Sample Location Description: 5ft South Sampler: CAJ Time: 0930 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 09 Sample Location ID: SB36D	Container	Quantity	Preservative
Sample Location Description: 5ft South Sampler: CAJ Time: ~~0930~~ 0931 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM	802 G	1	As is

Sample #: 1643210914- 10 Sample Location ID: SB36E	Container	Quantity	Preservative
Sample Location Description: 5ft East Sampler: CAJ Time: 0952 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM			

Sample #: 1643210914- 11 Sample Location ID: SB36F	Container	Quantity	Preservative
Sample Location Description: 5ft East Sampler: CAJ Time: 0953 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM			

Sample #: 1643210914- 12 Sample Location ID: SB36I	Container	Quantity	Preservative
Sample Location Description: 40 ft East Sampler: CAJ Time: 1000 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM N/A			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 13 Sample Location ID: SB36L	Container	Quantity	Preservative
Sample Location Description: 40ft East Sampler: _____ Time: 1000 1001 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other _____ Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM _____	8026	1	ASIS

Sample #: 1643210914- 14 Sample Location ID: SB36L	Container	Quantity	Preservative
Sample Location Description: 40ft East Sampler: CAJ Time: 1002 1002 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other _____ Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM _____			

Sample #: 1643210914- 15 Sample Location ID: SB36G	Container	Quantity	Preservative
Sample Location Description: 10ft west Sampler: CAJ Time: 1014 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other _____ Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM _____			

Sample #: 1643210914- 16 Sample Location ID: SB36G	Container	Quantity	Preservative
Sample Location Description: 10ft west Sampler: CAJ Time: 1015 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other _____ Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM _____			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 17 Sample Location ID: SB36M	Container	Quantity	Preservative
Sample Location Description: SW Corner 10ft Sampler: CAJ Time: 1020 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM —	802 G	1	ASIS

Sample #: 1643210914- 18 Sample Location ID: SB36M	Container	Quantity	Preservative
Sample Location Description: SW corner 10ft Sampler: CAJ Time: 1021 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Sample Depth: 2-4 PetroFLAG/OVM —			

Sample #: 1643210914- 19 Sample Location ID: SB36M	Container	Quantity	Preservative
Sample Location Description: SW Corner Sampler: CAJ Time: 1032 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Sample #: 1643210914- 20 Sample Location ID: SB36N	Container	Quantity	Preservative
Sample Location Description: NE Corner Sampler: CAJ Time: 1040 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM —			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 21 Sample Location ID: SB 36N	Container	Quantity	Preservative
Sample Location Description: NE Corner Sampler: CAJ Time: 1041 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —	802 G	1	As is

Sample #: 1643210914- 22 Sample Location ID: SB 36N	Container	Quantity	Preservative
Sample Location Description: 10ft NE Sampler: CAJ Time: 1042 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Sample #: 1643210914- 23 Sample Location ID: SB 36F	Container	Quantity	Preservative
Sample Location Description: 10ft North Sampler: CAJ Time: 1057 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM			

Sample #: 1643210914- 24 Sample Location ID: SB 36F	Container	Quantity	Preservative
Sample Location Description: 10ft North Sampler: CAJ Time: 1058 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 25 Sample Location ID: SB-360	Container	Quantity	Preservative
Sample Location Description: 10ft NW Sampler: CAJ Time: 1101 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / ~~No~~ / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM —	8oz G	1	As is

Sample #: 1643210914- 26 Sample Location ID: SB-360	Container	Quantity	Preservative
Sample Location Description: 10 ft NW Sampler: CAJ Time: 1102 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / ~~Other~~ probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —	8oz G	1	As is

Sample #: 1643210914- 27 Sample Location ID: SB-360	Container	Quantity	Preservative
Sample Location Description: 10ft NW Sampler: CAJ Time: 1103 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —	8oz G	1	As is

Sample #: 1643210914- 28 Sample Location ID: SB 36P	Container	Quantity	Preservative
Sample Location Description: 30ft West Sampler: CAJ Time: 1128 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM —	8oz G	1	As is

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 29 Sample Location ID: SB36P	Container	Quantity	Preservative
Sample Location Description: 30ft west Sampler: CAJ Time: 1129 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —	802 G	1	As is

Sample #: 1643210914- 30 Sample Location ID: SB 36P	Container	Quantity	Preservative
Sample Location Description: 30ft west Sampler: CAJ Time: 1130 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —	802 G	1	As is

Sample #: 1643210914- 31 Sample Location ID: SB36Q	Container	Quantity	Preservative
Sample Location Description: 40ft North Sampler: CAJ Time: 1140 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM —	802 G	1	As is

Sample #: 1643210914- 32 Sample Location ID: SB36Q	Container	Quantity	Preservative
Sample Location Description: 40ft North Sampler: CAJ Time: 1141 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —	802 G	1	As is

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- ~~SB-36Q~~ 33 Sample Location ID: SB-36Q	Container	Quantity	Preservative
Sample Location Description: 4 oft North Sampler: CAJ Time: 1142 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM	8oz G	1	As is

Sample #: 1643210914- 34 Sample Location ID: SB-37	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: ~~1142~~ 1150 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM			

Sample #: 1643210914- 35 Sample Location ID: SB-37	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: 1151 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM			

Sample #: 1643210914- 36 Sample Location ID: SB-37	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: 1152 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 37 Sample Location ID: SB38	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: 1200 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Sample Depth: 0-2 PetroFLAG/OVM	807 G	1	As is

Sample #: 1643210914- 38 Sample Location ID: SB38	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: 1201 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM			

Sample #: 1643210914- 39 Sample Location ID: SB38	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: 1202 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Sample #: 1643210914- 40 Sample Location ID: SB 39	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: 1214 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM —			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 41 Sample Location ID: SB39	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: 1215 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —	8oz G	1	As is

Sample #: 1643210914- 42 Sample Location ID: SB39	Container	Quantity	Preservative
Sample Location Description: See Map Sampler: CAJ Time: 1216 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —	8oz G	1	As is

Sample #: 1643210914- 43 Sample Location ID: SB30F	Container	Quantity	Preservative
Sample Location Description: 15' South Sampler: CAJ Time: 1253 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM —			

Sample #: 1643210914- 44 Sample Location ID: SB30F	Container	Quantity	Preservative
Sample Location Description: 15' South Sampler: CAJ Time: 1254 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 45 Sample Location ID: SB 30F	Container	Quantity	Preservative
Sample Location Description: 15' South Sampler: CAJ Time: 1255 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —	8oz G	1	Asis

Sample #: 1643210914- 46 Sample Location ID: SB 30D	Container	Quantity	Preservative
Sample Location Description: 5' South Sampler: CAJ Time: 1309 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —			

Sample #: 1643210914- 47 Sample Location ID: SB 30D	Container	Quantity	Preservative
Sample Location Description: 5' South Sampler: CAJ Time: 1310 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Sample #: 1643210914- 48 Sample Location ID: SB 30G	Container	Quantity	Preservative
Sample Location Description: 15ft East Sampler: CAJ Time: 1320 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 49 Sample Location ID: SB 30 G	Container	Quantity	Preservative
Sample Location Description: 15' East, offset 5' North Sampler: CAJ Time: 1320 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM	8oz G	1	As is

Sample #: 1643210914- 50 Sample Location ID: SB 30 G	Container	Quantity	Preservative
Sample Location Description: 15 feet east, offset 5' Sampler: CAJ Time: 1322 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Sample #: 1643210914- 51 Sample Location ID: SB 30 E	Container	Quantity	Preservative
Sample Location Description: 5' East Sampler: CAJ Time: 1330 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / Dedicated Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM			

Sample #: 1643210914- 52 Sample Location ID: SB 30 E	Container	Quantity	Preservative
Sample Location Description: 5' East Sampler: CAJ Time: 1331 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- S3 Sample Location ID: SB 30@B	Container	Quantity	Preservative
Sample Location Description: 5' North Sampler: CAJ Time: 1340 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —	8oz G	1	As is

Sample #: 1643210914- S4 Sample Location ID: SB 30@B	Container	Quantity	Preservative
Sample Location Description: 5' North Sampler: CAJ Time: 1341 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Sample #: 1643210914- S5 Sample Location ID: SB 30@C	Container	Quantity	Preservative
Sample Location Description: 5' west Sampler: CAJ Time: 1350 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Probe Sample Depth: 2-4 PetroFLAG/OVM —			

Sample #: 1643210914- S6 Sample Location ID: SB 30 C	Container	Quantity	Preservative
Sample Location Description: 5' west Sampler: CAJ Time: 1351 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- S7 Sample Location ID: SB-30 H Sample Location Description: 15 ft North Sampler: CAJ Time: 1400 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM	Container	Quantity	Preservative
	802 G	1	As is

Sample #: 1643210914- S8 Sample Location ID: SB-30 H Sample Location Description: 15ft North Sampler: CAJ Time: 1401 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM	Container	Quantity	Preservative

Sample #: 1643210914- S9 Sample Location ID: SB-30 H Sample Location Description: 15ft North Sampler: CAJ Time: 1402 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM	Container	Quantity	Preservative

Sample #: 1643210914- S10 Sample Location ID: SB 30 I Sample Location Description: 15 ft East Sampler: CAJ Time: 1412 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 0-2 PetroFLAG/OVM	Container	Quantity	Preservative

Soil Sampling Field Data

Client/Project Name: Riverfront Property Project Location: Hatyford CT Date: 9/14/21 Weather:	**PROJECT #:** 20170277.A30	FUSS & O'NEILL

Sample #: 1643210914- 61 Sample Location ID: SB-301	Container	Quantity	Preservative
Sample Location Description: 15' East Sampler: CAJ Time: 1413 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 2-4 PetroFLAG/OVM —	8oz G	1	As is

Sample #: 1643210914- 62 Sample Location ID: SB3.1	Container	Quantity	Preservative
Sample Location Description: 15' East Sampler: CAJ Time: 1414 Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Probe Field Decon: Yes / No / (Dedicated) Type of Sample: (Grab) / Composite / Other Generic Soil Description: Fill Sample Depth: 4-6 PetroFLAG/OVM —			

Sample #: 1643210914- Sample Location ID:	Container	Quantity	Preservative
Sample Location Description: Sampler: Time: Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Sample Depth: 4/6 PetroFLAG/OVM			

Sample #: 1643210914- Sample Location ID:	Container	Quantity	Preservative
Sample Location Description: Sampler: Time: Sampling Device: Auger / Core Sampler / Shovel / Hammer Drill / Trowel / Other Field Decon: Yes / No / Dedicated Type of Sample: Grab / Composite / Other Generic Soil Description: Sample Depth: PetroFLAG/OVM			

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront RLI
Project Location:

Location ID: SB36J
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Direct push
Sampling Method: Gloves
Hammer Weight: N/A Hammer Fall (inches): N/A

Location Description: SB36J
Date Started: 9/13/21
Date/Time Completed: 9/13/21
Depth to Saturated Zone:
Sample # Prefix: 1643210914-02

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		48/48	0-2	Sand F-C, tr gravel, tr, Asphalt Concrete, brown, no odor, organics	No hits	Fi			
2			2-4	Sand F-C, tr gravel, dark brown/red		Sw			
4			4-6	Sand F-C; tr gravel, dark brown		Sw			
				EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	8	To	0
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RL1

Project Location:

Location ID: SB 36K
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Probe
Sampling Method: Sleeve
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 36K
Date Started: 9/14/21
Date/Time Completed: 9/14/21
Depth to Saturated Zone: —

Sample # Prefix: 05, 06, 07

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		48/48	0-3.5	Sand F-C, tr gravel, brown, no odor, tr brick, asphalt		Fi	-05 -06 -07	0-2 2-4 4-6	8oz Glass
			3.5-4	Sand F-C, ~~native material~~, brown, tr gravel, no odor,		Fi			
4			4-6	Il, tr asphalt		Fi			
				EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips	6	To 6	
Cuttings/Native Material	6	To 0	
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: R.V. Front RLI

Project Location:

Location ID: SB36D

Sheet #: of

Project #:

Weather:

Contractor: Hazprobe

Operator: Frank

F&O Representative: CAJ

Drilling Method: probe

Sampling Method: Glove

Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 36D, 5 ft South

Date Started: 9/13/21

Date/Time Completed: 9/14/21

Depth to Saturated Zone: —

Sample # Prefix: 164321091 4-08, 09, FB

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		48/48	3	Sand F-C, tr gravel, tr brick, asphalt, no odor, brown		Fi	08	2-4	8oz 6 Ass's
			3-4	Sand F-C, tr asphalt, brick grey, no odor		Fi			↓
4		24/24	6	Sand F-C, grey, heavy asphalt, ltl gravel, no odor			09	4-6	↓
				EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS

Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	8	To 0	
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RL1

Project Location:

Location ID: SB-36E
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: Hammer Fall (inches):

Location Description: SB-36 E
Date Started: 9/13/21
Date/Time Completed: 9/13/21
Depth to Saturated Zone: —

Sample # Prefix: 10, 11

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		48/48	4	Sand F-c, ltl gravel, brown, no odor, tr asphalt, brick		Fi	10	2-4	802 G
4		12/24	5	11		Fi			↓
5			6	No recovery		Fi	11	4-6	↓

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	6	To 0	
Other		To	

BORING LOG

FUSS & O'NEILL

Project Name:

Project Location:

Location ID: SB 3CL
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Geoprobe
Sampling Method: Dedicated gloves
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 3CL, 40' East
Date Started: 9/13/21
Date/Time Completed: 9/13/21
Depth to Saturated Zone: 2'
Sample # Prefix: 12, 13, 14

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		48/48	4	Sand F-C, brown, ltl gravel tr brick, asphalt, no odor		F:	12 13 14	0-2 2-4 4-6	
4		24/24	6	Sand F-C, brown - grey, ltl asphalt, tr brick, No odor		F:			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips	0	To 2	
Cuttings/Native Material	2	To 6	
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RLI

Project Location:

Location ID: SB 36G

Sheet #: ____ of ____

Project #: ____

Weather: ____

Contractor: Hazprobe

Operator: Frank

F&O Representative: CAJ

Drilling Method: Probe

Sampling Method: Gravel

Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 36 G

Date Started: 9/19/21

Date/Time Completed: 9/19/21

Depth to Saturated Zone: —

Sample # Prefix: 15, 16

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		48/48	2	Sand F-C, Tr Brick, Asphalt, ltl gravel brown, no odor,		Fi	15 16	2-4 4-6	
2			4	Sand F-C, grey/brown, tr gravel, brick, asphalt, no odor		Fi			
4		24/24	6	Sand F-M, ltl clay, ltl asphalt, gravel, tr brick		Fi			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS

Field Instrument = PID/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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To		
Cuttings/Native Material	6	To	0	
Other		To		

FUSS & O'NEILL

BORING LOG

Project Name:

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Probe
Sampling Method: Gloves
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 36M
Date Started: 9/19/21
Date/Time Completed: 9/19/21
Depth to Saturated Zone: —

Sample # Prefix: 17, 18, 19

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		48/48	4	Sand F-C, grvl, tr brick, Asphalt No odor		Fi	17 18 19	0-2 2-4 4-6	807 G
4		12/24	4-5	11		Fi			
			5-6	No recovery					
				EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	6	To	0
Other		To	

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront RL1

Project Location:

Location ID: SB 36N

Sheet #: of

Project #:

Weather:

Contractor: Hazprobe

Operator: Frank

F&O Representative: CAJ

Drilling Method: probe

Sampling Method: gloves

Hammer Weight: - Hammer Fall (inches): -

Location Description: SB 36N 10 ft NE

Date Started: 9/13/21

Date/Time Completed: 9/13/21

Depth to Saturated Zone:

Sample # Prefix: 20, 21, 22

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		48/48	4	Sand F-C, ltl grvl, tr brick, Asphalt No odor, brown grey		Fi	20 21 22	0-2 2-4 4-6	8oz G
4		18/24	4-5.5	↓, tr clay		Fi			
			5.5-6	No recovery					
				EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS

Field Instrument = PID/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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	6	To 0	
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RL1

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Probe
Sampling Method: Glove
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 36F
Date Started: 9/13/21
Date/Time Completed: 9/13/21
Depth to Saturated Zone: 5.5'
Sample # Prefix: 23, 24

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		48/48	0-3.5	Sand F-C, grvl, ltl Asphalt, tr brick, no odor, brown-grey		Fi	23	2-4	8oz
							24	4-6	G
			3.5-4	Sand F-M, ltl Asphalt, tr grvl brown, plastic lining from Piece		Fi			
4		24/24	4-6	11		Fi			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	6	To 0	
Other		To	

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront RLI

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: probe
Sampling Method: glove
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 360
Date Started: 9/19/21
Date/Time Completed: 9/19/21
Depth to Saturated Zone: —

Sample # Prefix: 25, 26, 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		48/48	4	Sand F-C, brown/red, ltl asphalt tr brick, NO odor		Fi	25 26	0-2 2-4	8oz G
4		24/24	6	11		Fi	27	4-6	

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To		
Cuttings/Native Material	6	To	0	
Other		To		

BORING LOG

FUSS & O'NEILL

Project Name:

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Probe
Sampling Method: Gloves
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB36P
Date Started: 9/15/21
Date/Time Completed: 9/15/21
Depth to Saturated Zone: —

Sample # Prefix: 28, 29, 30

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		48/48	4	Sand F-C ltl Gvl, ltl Asphalt, tr brick, brown no odor		Fi	28 29	0-2 2-4	8oz G
4		24/24	6	//			30	4-6	

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	probe	6

REMARKS
Field Instrument = PID/OVM

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

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		See Monitoring Well Completion Report
Bentonite Grout/Chips		To		
Cuttings/Native Material	6	To	0	
Other		To		

FUSS & O'NEILL

BORING LOG

Project Name:

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: probe
Sampling Method: gloves
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 36Q
Date Started: 9/13/21
Date/Time Completed: 9/13/21
Depth to Saturated Zone: —

Sample # Prefix: 31, 32, 33

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		48/48	0-2	Sand F-C, ltl gravel, tr brick asphalt, brown no odor		Fi			
			2-3	Sand F-C, red, tr asphalt, no odor		Fi			
			3-4	Sand F-C, ltl gravel, tr brick, asphalt no odor		Fi			
4		24/24	4-6	11		Fi			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	6	To	0
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RL1

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Probe
Sampling Method: Glove
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB-37
Date Started: 9/10/21
Date/Time Completed: 9/10/21
Depth to Saturated Zone: —
Sample # Prefix: 34, 35, 36

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		48/48	3.25	Sand F-C, red/brown, tr gravel, tr brick, no odor		Fi			
			3.25-4	Sand F-C, light brown, ltl asphalt No odor, Plastic liner found		Fi			
4		24/24	4-5	11		Fi			
			5-6	Sand F-C brown, no odor		SW			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	6	To	0
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RLI

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Probe
Sampling Method: gloves
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB38
Date Started: 9/15/21
Date/Time Completed: 9/15/21
Depth to Saturated Zone:
Sample # Prefix: 37, 38, 39

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		48/48	2	Sand F-C, ltl gravel, red-brown, tr asphalt, brick, no odor		Fi	37 38 39	0-2 2-4 4-6	802 G
			2-4	Sand F-C, tr gravel, ltl asphalt, ~~ltl~~ tr concrete		Fi			
4		24/24	4-6	//		Fi			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	6

REMARKS
Field Instrument = PID/OVM
If refusal is encountered, describe all efforts used to confirm.

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		See Monitoring Well Completion Report
Bentonite Grout/Chips		To		
Cuttings/Native Material	6	To	0	
Other		To		

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront RL1

Project Location:

Location ID:

Sheet #: of

Project #:

Weather:

Contractor: Hazprobe

Operator: Frank

F&O Representative: CAJ

Drilling Method: Probe

Sampling Method: Sleeve

Hammer Weight: — Hammer Fall (inches): —

Location Description: SB39

Date Started: 9/14/21

Date/Time Completed: 9/14/21

Depth to Saturated Zone:

Sample # Prefix: 40, 41, 42

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		48/48	4	Sand F-C, ltl gravel, tr brick, no odor red-brown		Fi			
4		24/24	4-5	11		Fi			
			5-6	Sand F-M, brown, no odor		SW			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2"	Probe	6'

REMARKS

Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	6	To	0
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RL1

Project Location:

Location ID: SB30B
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Direct Push
Sampling Method: Destroked gloves
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 30 B
Date Started: 9/14/21
Date/Time Completed: 9/14/21
Depth to Saturated Zone: —

Sample # Prefix: 53, 54

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		48/48	4	SAND F-C, ~~Asphalt~~ ltl Asphalt, tr brick, ltl grvl, coal odor	1.1 (1.5')	Fi	53	2-4	802
							54	4-6	G
4		48/48	4-7.5	"					
			7.5-8	SAND F-C, brown/grey, no odor		SW			
				EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	8

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	0	To	8
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RLI

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Direct Push Probe
Sampling Method: Gloves
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 30 C
Date Started: 9/19/21
Date/Time Completed: 9/19/21
Depth to Saturated Zone: —
Sample # Prefix: 55, 56

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		46/48	4	Sand F-C, ltl asphalt, brick, grvl brown-black		Fi	55	2-4	802G
4		38/48	4-7.8	11		Fi	56	4-6	
			7-8	No recovery					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	8

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	8	To	8.0
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RLI

Project Location:

Location ID: SB30D

Sheet #: ____ of ____

Project #:

Weather:

Contractor: Hazprobe

Operator: Frank

F&O Representative: CAJ

Drilling Method: Probe

Sampling Method: Dedicated Sleeve

Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 30D

Date Started: 9/14/21

Date/Time Completed: 9/14/21

Depth to Saturated Zone: —

Sample # Prefix: 46, 47

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		48/48	4	Sand F-C, ltl asphalt, brick, gravel No odor		Fi	46 47	2-4 4-6	802 G
4		48/48	4-7	11		Fi			
			7-8	Sand F-C, brown-black, Native material, No Odor		SW			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Direct Push	8

REMARKS

Field Instrument = PID/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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips	____	To ____	
Cuttings/Native Material	8	To 20	
Other ____	____	To ____	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RLI

Project Location:

Location ID: SB30E
Sheet #: 1 of 1
Project #:
Weather: Clear 80's

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: Geoprobe
Sampling Method: Dedicated Sleeve
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB30E
Date Started: 9/13/21
Date/Time Completed: 9/13/21
Depth to Saturated Zone:
Sample # Prefix: S1, S2

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		48/48	4	Sand F-C, ltl asphalt, ltl brick, grvl No odor, brown-black-red		Fi	S1 S2	2-4 4-6	8oz G
4		48/48	7	"		Fi			
			7-8	Sand F-M, ltl grvl		SW			
				End of Boring					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Direct Push	8

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	0	To 8	
Other		To	

BORING LOG

FUSS & O'NEILL

Project Name: Riverfront RLI

Project Location:

Location ID: SB 30H

Sheet #: of

Project #:

Weather: Clear 80's

Contractor: Hazprobe

Operator: Frank

F&O Representative: CAJ

Drilling Method: Probe

Sampling Method: Gloves

Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 30H

Date Started: 9/19/21

Date/Time Completed: 9/19/21

Depth to Saturated Zone: —

Sample # Prefix: 57, 58, 59

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		44/48	4	Sand F-C, Mod 1tl Asphalt, brick, gravel brown, black, red		Fi	57 58	0-2 2-4	802 G
4		44/48	4-5	"		Fi	59	4-6	
			5-8	Sand F-C, brown, no odor		Sw			
				EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	8

REMARKS

Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	8	To	0
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RLI

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frank
F&O Representative: CAJ
Drilling Method: probe
Sampling Method: glove
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB30F
Date Started: 9/14/21
Date/Time Completed: 9/14/21
Depth to Saturated Zone: —
Sample # Prefix: ~~SB30F~~ 43, 44, 45

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-C, tr brick, ltl asphalt ltl gravel, No odor, brown/black		Fi	43 44 45	0-2 2-4 4-6	8oz G
			3-4	No recovery					
4		46/48	4-7	Sand F-C, tr brick, ltl asphalt ltl gravel, No odor, brown/black		Fi			
			7-8	Sand F-M, brown, no odor		Sw			
				EOB					

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	8

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	0	To	0
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: Riverfront RL1

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Ryan Frank
F&O Representative: CAJ
Drilling Method: Probe
Sampling Method: gloves
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB 306
Date Started: 9/14/21
Date/Time Completed: 9/14/21
Depth to Saturated Zone:
Sample # Prefix: 48, 49, 50

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		48/48	2.5	Sand F-C, tr asphalt, ltl gravel No odor		F:	48 49 50	0-2 2-4 4-6	802 G
			2.5-3	Gravel, white/grey					
			3-4			F:			
4		48/48	4-7.5			F:			
			7.5-8	Sand F, brown/grey, no odor		SW			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	8

REMARKS
Field Instrument = PID/OVM

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

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	See Monitoring Well Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	8	To	6
Other		To	

FUSS & O'NEILL

BORING LOG

Project Name: RMerfront RL1

Project Location:

Location ID:
Sheet #: of
Project #:
Weather:

Contractor: Hazprobe
Operator: Frankel, Paul
F&O Representative: CAJ
Drilling Method: Probe
Sampling Method: Sleeve
Hammer Weight: — Hammer Fall (inches): —

Location Description: SB-30I
Date Started: 9/15/21
Date/Time Completed: 9/15/21
Depth to Saturated Zone: —

Sample # Prefix: 60, 61, 62

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		48/48	4	Sand F-C, brown-black, ltl Asphalt, brick, gravel, no odor		Fi			
~~0~~ 4		48/48	4-6	11		Fi			
			6-8	Sand F-M, brown, no odor		Sw			

BORING DIAMETER	BORING METHOD	BORING DEPTH
2	Probe	8

REMARKS
Field Instrument = PID/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 (ltl) 10 to 20%
Some (sm) 20 to 35%
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 Completion Report
Bentonite Grout/Chips		To	
Cuttings/Native Material	8	To 6	
Other		To	

FUSS & O'NEILL

Appendix C

Laboratory Reports

Tuesday, April 17, 2018

Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Sample ID#s: CA15219 - CA15235

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

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

Analysis Report

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	7:45
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15219

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-01 TB-High

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	04/08/18	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	04/08/18	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	04/08/18	JLI	SW8260
1,2-Dibromoethane	ND	25	ug/Kg	50	04/08/18	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,2-Dichloroethane	ND	200	ug/Kg	50	04/08/18	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	04/08/18	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15219

Client ID: 1305180405-01
TB-High

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	04/08/18	JLI	SW8260
Acrylonitrile	ND	100	ug/Kg	50	04/08/18	JLI	SW8260
Benzene	ND	200	ug/Kg	50	04/08/18	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Bromodichloromethane	ND	210	ug/Kg	50	04/08/18	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	100	ug/Kg	50	04/08/18	JLI	SW8260
Dibromochloromethane	ND	100	ug/Kg	50	04/08/18	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	04/08/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	04/08/18	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Styrene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	04/08/18	JLI	SW8260
Toluene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	100	ug/Kg	50	04/08/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	04/08/18	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	04/08/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	50	04/08/18	JLI	70 - 130 %
% Bromofluorobenzene	100		%	50	04/08/18	JLI	70 - 130 %
% Dibromofluoromethane	101		%	50	04/08/18	JLI	70 - 130 %

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15219

Client ID: 1305180405-01
TB-High

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	96		%	50	04/08/18	JLI	70 - 130 %
Field Extraction	Completed				04/05/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	7:50
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15220

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-02 TB-Low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	04/08/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	04/08/18	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-02

TB-Low

Phoenix I.D.: CA15220

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	04/08/18	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	04/08/18	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	04/08/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	04/08/18	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	04/08/18	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	04/08/18	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	04/08/18	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	04/08/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/08/18	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	04/08/18	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	04/08/18	JLI	70 - 130 %

Ver 1

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-02 TB-Low

Phoenix I.D.: CA15220

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95		%	1	04/08/18	JLI	70 - 130 %
Field Extraction	Completed				04/05/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	9:10
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15221

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-03 TP-01 (6-7.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.46	0.46	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	2.15	0.93	mg/Kg	1	04/07/18	MA	SW6010C
Barium	22.4	0.46	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	< 0.46	0.46	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	12.0	0.46	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/09/18	RS	SW7471B
Lead	2.49	0.46	mg/Kg	1	04/07/18	MA	SW6010C
Selenium	< 1.9	1.9	mg/Kg	1	04/07/18	MA	SW6010C
Percent Solid	76		%		04/05/18	AP	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/06/18	AP/CKV	SW3545A
Extraction of CT ETPH	Completed				04/06/18	BA/VCK	SW3545A
Mercury Digestion	Completed				04/09/18	IW/I	SW7471B
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	04/07/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/07/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	04/07/18	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Acenaphthene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Acenaphthylene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Anthracene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15221

Client ID: 1305180405-03
TP-01 (6-7.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(ghi)perylene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Chrysene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Fluoranthene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Fluorene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Naphthalene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Phenanthrene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Pyrene	ND	170	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	10	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	63		%	10	04/07/18	DD	30 - 130 %
% Terphenyl-d14	65		%	10	04/07/18	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	9:30
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15222

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-04 TP-03 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.49	0.49	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	3.69	0.98	mg/Kg	1	04/07/18	MA	SW6010C
Barium	185	0.49	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	< 0.49	0.49	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	38.8	0.49	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	< 0.04	0.04	mg/Kg	1	04/09/18	RS	SW7471B
Lead	18.1	0.49	mg/Kg	1	04/07/18	MA	SW6010C
Selenium	< 2.0	2.0	mg/Kg	1	04/07/18	MA	SW6010C
SPLP Silver	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Arsenic	< 0.004	0.004	mg/L	1	04/06/18	MA	SW6010C
SPLP Barium	0.028	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/06/18	MA	SW6010C
SPLP Chromium	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Mercury	< 0.0005	0.0005	mg/L	1	04/09/18	RS	SW7470A
SPLP Lead	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Selenium	< 0.020	0.020	mg/L	1	04/06/18	MA	SW6010C
SPLP Metals Digestion	Completed				04/06/18	IW/I	SW3010A
Percent Solid	72		%		04/05/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/05/18	JJ/V	SW3545A
Soil Extraction for Pesticide	Completed				04/05/18	JJ/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/06/18	AP/CKV	SW3545A
Extraction of CT ETPH	Completed				04/06/18	BA/VCK	SW3545A
Mercury Digestion	Completed				04/09/18	IW/I	SW7471B
SPLP Digestion Mercury	Completed				04/09/18	I/I	SW1312/SW7470A
SPLP Extraction for Metals	Completed				04/05/18	i	SW1312
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15222

Client ID: 1305180405-04
TP-03 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	04/07/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/07/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	04/07/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1221	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1232	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1242	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1248	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1254	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1260	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1262	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1268	ND	460	ug/Kg	10	04/06/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	119		%	10	04/06/18	AW	30 - 150 %
% TCMX	105		%	10	04/06/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
4,4' -DDE	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
4,4' -DDT	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
a-BHC	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Alachlor	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Aldrin	ND	2.3	ug/Kg	1	04/13/18	CW	SW8081B
b-BHC	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Chlordane	ND	23	ug/Kg	1	04/13/18	CW	SW8081B
d-BHC	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Dieldrin	ND	2.3	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan I	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan II	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan sulfate	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Endrin	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Endrin aldehyde	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Endrin ketone	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
g-BHC	ND	0.92	ug/Kg	1	04/13/18	CW	SW8081B
Heptachlor	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Heptachlor epoxide	ND	4.6	ug/Kg	1	04/13/18	CW	SW8081B
Methoxychlor	ND	23	ug/Kg	1	04/13/18	CW	SW8081B
Toxaphene	ND	92	ug/Kg	1	04/13/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	76		%	1	04/13/18	CW	30 - 150 %
% TCMX	76		%	1	04/13/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15222

Client ID: 1305180405-04
TP-03 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	04/08/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	04/08/18	JLI	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	04/08/18	JLI	SW8260
Acetone	ND	270	ug/Kg	1	04/08/18	JLI	SW8260
Acrylonitrile	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Benzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromochloromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromoform	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromomethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Chlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Chloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Chloroform	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Chloromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	1	04/08/18	JLI	SW8260
Dibromomethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Ethylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
m&p-Xylene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	1	04/08/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/08/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	11	ug/Kg	1	04/08/18	JLI	SW8260
Naphthalene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
o-Xylene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Styrene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/08/18	JLI	SW8260
Toluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Total Xylenes	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/08/18	JLI	SW8260
Trichloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Vinyl chloride	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	04/08/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	04/08/18	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	04/08/18	JLI	70 - 130 %
% Toluene-d8	93		%	1	04/08/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Acenaphthene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Acenaphthylene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Anthracene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Chrysene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Fluoranthene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Fluorene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Naphthalene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Phenanthrene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Pyrene	ND	180	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	54		%	10	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	52		%	10	04/07/18	DD	30 - 130 %
% Terphenyl-d14	63		%	10	04/07/18	DD	30 - 130 %
Field Extraction	Completed				04/05/18		SW5035A

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15222

Client ID: 1305180405-04
TP-03 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	9:55
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15223

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-05 TP-02 (5-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	4.73	0.87	mg/Kg	1	04/07/18	MA	SW6010C
Barium	278	0.43	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	< 0.43	0.43	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	32.6	0.43	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	0.29	0.03	mg/Kg	1	04/09/18	RS	SW7471B
Lead	220	4.3	mg/Kg	10	04/09/18	MA	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	04/07/18	MA	SW6010C
SPLP Silver	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Arsenic	0.004	0.004	mg/L	1	04/06/18	MA	SW6010C
SPLP Barium	0.117	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/06/18	MA	SW6010C
SPLP Chromium	0.017	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Mercury	< 0.0005	0.0005	mg/L	1	04/09/18	RS	SW7470A
SPLP Lead	0.094	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Selenium	< 0.020	0.020	mg/L	1	04/06/18	MA	SW6010C
SPLP Metals Digestion	Completed				04/06/18	IW/I	SW3010A
Percent Solid	78		%		04/05/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/05/18	JJ/V	SW3545A
Soil Extraction for Pesticide	Completed				04/05/18	JJ/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/05/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				04/06/18	BA/VCK	SW3545A
Mercury Digestion	Completed				04/09/18	IW/I	SW7471B
SPLP Digestion Mercury	Completed				04/09/18	I/I	SW1312/SW7470A
SPLP Extraction for Metals	Completed				04/05/18	i	SW1312
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-05

Phoenix I.D.: CA15223

TP-02 (5-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	04/07/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/07/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	04/07/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1221	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1232	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1242	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1248	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1254	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1260	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1262	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1268	ND	420	ug/Kg	10	04/06/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	04/06/18	AW	30 - 150 %
% TCMX	97		%	10	04/06/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
4,4' -DDE	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
4,4' -DDT	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
a-BHC	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Alachlor	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Aldrin	ND	2.1	ug/Kg	1	04/13/18	CW	SW8081B
b-BHC	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Chlordane	ND	21	ug/Kg	1	04/13/18	CW	SW8081B
d-BHC	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Dieldrin	ND	2.1	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan I	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan II	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan sulfate	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Endrin	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Endrin aldehyde	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Endrin ketone	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
g-BHC	ND	0.84	ug/Kg	1	04/13/18	CW	SW8081B
Heptachlor	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Heptachlor epoxide	ND	4.2	ug/Kg	1	04/13/18	CW	SW8081B
Methoxychlor	ND	21	ug/Kg	1	04/13/18	CW	SW8081B
Toxaphene	ND	84	ug/Kg	1	04/13/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	82		%	1	04/13/18	CW	30 - 150 %
% TCMX	77		%	1	04/13/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15223

Client ID: 1305180405-05
TP-02 (5-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	04/08/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	04/08/18	JLI	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	04/08/18	JLI	SW8260
Acetone	ND	270	ug/Kg	1	04/08/18	JLI	SW8260
Acrylonitrile	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Benzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromochloromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromoform	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Bromomethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Chlorobenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Chloroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Chloroform	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Chloromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	1	04/08/18	JLI	SW8260
Dibromomethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Ethylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
m&p-Xylene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	1	04/08/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/08/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	11	ug/Kg	1	04/08/18	JLI	SW8260
Naphthalene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
o-Xylene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Styrene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/08/18	JLI	SW8260
Toluene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Total Xylenes	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/08/18	JLI	SW8260
Trichloroethene	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
Vinyl chloride	ND	5.4	ug/Kg	1	04/08/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/08/18	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	04/08/18	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	04/08/18	JLI	70 - 130 %
% Toluene-d8	95		%	1	04/08/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Anthracene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Benz(a)anthracene	370	300	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Chrysene	370	300	ug/Kg	1	04/07/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Fluoranthene	830	300	ug/Kg	1	04/07/18	DD	SW8270D
Fluorene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Naphthalene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Phenanthrene	770	300	ug/Kg	1	04/07/18	DD	SW8270D
Pyrene	800	300	ug/Kg	1	04/07/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	33		%	1	04/07/18	DD	30 - 130 %
% Terphenyl-d14	103		%	1	04/07/18	DD	30 - 130 %
Field Extraction	Completed				04/05/18		SW5035A

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15223

Client ID: 1305180405-05
TP-02 (5-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	10:05
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15224

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-06 TP-01 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		04/05/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Pesticides							
4,4' -DDD	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
4,4' -DDE	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
4,4' -DDT	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
a-BHC	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	04/10/18	CW	SW8081B
b-BHC	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	04/10/18	CW	SW8081B
d-BHC	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Endrin	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/10/18	CW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	04/10/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	04/10/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/10/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	73		%	2	04/10/18	CW	30 - 150 %
% TCMX	68		%	2	04/10/18	CW	30 - 150 %

Ver 1

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15224

Client ID: 1305180405-06
TP-01 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	10:30
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15225

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-07 TP-05 (4-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	2.87	0.83	mg/Kg	1	04/07/18	MA	SW6010C
Barium	64.4	0.41	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	< 0.41	0.41	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	14.1	0.41	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/09/18	RS	SW7471B
Lead	47.5	0.41	mg/Kg	1	04/07/18	MA	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	04/07/18	MA	SW6010C
Percent Solid	85		%		04/05/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/05/18	JJ/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/06/18	JJ/CKV	SW3545A
Mercury Digestion	Completed				04/09/18	IW/I	SW7471B
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B
Polychlorinated Biphenyls							
PCB-1016	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1221	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1232	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1242	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1248	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1254	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1260	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1262	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
PCB-1268	ND	390	ug/Kg	10	04/06/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	101		%	10	04/06/18	AW	30 - 150 %
% TCMX	89		%	10	04/06/18	AW	30 - 150 %

Ver 1

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-07

Phoenix I.D.: CA15225

TP-05 (4-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Acenaphthene	ND	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Acenaphthylene	ND	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Anthracene	ND	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benz(a)anthracene	300	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(a)pyrene	370	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	310	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	350	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	290	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Chrysene	400	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Fluoranthene	580	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Fluorene	ND	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	400	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Naphthalene	ND	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Phenanthrene	210	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
Pyrene	650	160	ug/Kg	10	04/07/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	10	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	61		%	10	04/07/18	DD	30 - 130 %
% Terphenyl-d14	61		%	10	04/07/18	DD	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	14:10
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15226

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-08

TP-04 (8-9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	2.04	0.77	mg/Kg	1	04/07/18	MA	SW6010C
Barium	42.4	0.38	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	10.1	0.38	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	0.05	0.03	mg/Kg	1	04/06/18	RS	SW7471B
Lead	30.7	0.38	mg/Kg	1	04/07/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	04/07/18	MA	SW6010C
SPLP Silver	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Arsenic	< 0.004	0.004	mg/L	1	04/06/18	MA	SW6010C
SPLP Barium	0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/06/18	MA	SW6010C
SPLP Chromium	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Mercury	< 0.0005	0.0005	mg/L	1	04/09/18	RS	SW7470A
SPLP Lead	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Selenium	< 0.020	0.020	mg/L	1	04/06/18	MA	SW6010C
SPLP Metals Digestion	Completed				04/06/18	IW/I	SW3010A
Percent Solid	92		%		04/05/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/05/18	JJ/V	SW3545A
Soil Extraction for Pesticide	Completed				04/05/18	JJ/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/05/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				04/06/18	BA/VCK	SW3545A
Mercury Digestion	Completed				04/06/18	I/W	SW7471B
SPLP Digestion Mercury	Completed				04/09/18	I/I	SW1312/SW7470A
SPLP Extraction for Metals	Completed				04/05/18	i	SW1312
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15226
Client ID: 1305180405-08
TP-04 (8-9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	440	270	mg/Kg	5	04/09/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	04/09/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	5	04/09/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
PCB-1221	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
PCB-1232	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
PCB-1242	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
PCB-1248	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
PCB-1254	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
PCB-1260	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
PCB-1262	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
PCB-1268	ND	360	ug/Kg	10	04/07/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	125		%	10	04/07/18	AW	30 - 150 %
% TCMX	109		%	10	04/07/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
4,4' -DDE	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
4,4' -DDT	5.8	3.6	ug/Kg	1	04/13/18	CW	SW8081B
a-BHC	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Alachlor	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Aldrin	ND	1.8	ug/Kg	1	04/13/18	CW	SW8081B
b-BHC	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Chlordane	ND	18	ug/Kg	1	04/13/18	CW	SW8081B
d-BHC	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Dieldrin	ND	1.8	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan I	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan II	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Endosulfan sulfate	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Endrin	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Endrin aldehyde	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Endrin ketone	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
g-BHC	ND	0.71	ug/Kg	1	04/13/18	CW	SW8081B
Heptachlor	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Heptachlor epoxide	ND	3.6	ug/Kg	1	04/13/18	CW	SW8081B
Methoxychlor	ND	18	ug/Kg	1	04/13/18	CW	SW8081B
Toxaphene	ND	71	ug/Kg	1	04/13/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	69		%	1	04/13/18	CW	30 - 150 %
% TCMX	65		%	1	04/13/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15226

Client ID: 1305180405-08
TP-04 (8-9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	04/08/18	JLI	SW8260
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloropropene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromoethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloroethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloropropane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichloropropane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
2,2-Dichloropropane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
2-Chlorotoluene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	04/08/18	JLI	SW8260
2-Isopropyltoluene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
4-Chlorotoluene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	04/08/18	JLI	SW8260
Acetone	ND	240	ug/Kg	1	04/08/18	JLI	SW8260
Acrylonitrile	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Benzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Bromobenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Bromochloromethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Bromodichloromethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Bromoform	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Bromomethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Carbon Disulfide	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Carbon tetrachloride	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Chlorobenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Chloroethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Chloroform	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Chloromethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	04/08/18	JLI	SW8260
Dibromomethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Ethylbenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Hexachlorobutadiene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Isopropylbenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
m&p-Xylene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	04/08/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.5	ug/Kg	1	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15226

Client ID: 1305180405-08
TP-04 (8-9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Methylene chloride	ND	9.5	ug/Kg	1	04/08/18	JLI	SW8260	
Naphthalene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
n-Butylbenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
n-Propylbenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
o-Xylene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
p-Isopropyltoluene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
sec-Butylbenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
Styrene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
tert-Butylbenzene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
Tetrachloroethene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
Tetrahydrofuran (THF)	ND	9.5	ug/Kg	1	04/08/18	JLI	SW8260	
Toluene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
Total Xylenes	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
trans-1,4-dichloro-2-butene	ND	9.5	ug/Kg	1	04/08/18	JLI	SW8260	
Trichloroethene	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
Trichlorofluoromethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
Trichlorotrifluoroethane	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
Vinyl chloride	ND	4.7	ug/Kg	1	04/08/18	JLI	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	97		%	1	04/08/18	JLI	70 - 130 %	
% Bromofluorobenzene	96		%	1	04/08/18	JLI	70 - 130 %	
% Dibromofluoromethane	101		%	1	04/08/18	JLI	70 - 130 %	
% Toluene-d8	96		%	1	04/08/18	JLI	70 - 130 %	
Polynuclear Aromatic HC								
2-Methylnaphthalene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Acenaphthene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Acenaphthylene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Anthracene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Benz(a)anthracene	280	250	ug/Kg	1	04/07/18	DD	SW8270D	
Benzo(a)pyrene	320	250	ug/Kg	1	04/07/18	DD	SW8270D	
Benzo(b)fluoranthene	290	250	ug/Kg	1	04/07/18	DD	SW8270D	
Benzo(ghi)perylene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Benzo(k)fluoranthene	270	250	ug/Kg	1	04/07/18	DD	SW8270D	
Chrysene	300	250	ug/Kg	1	04/07/18	DD	SW8270D	
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Fluoranthene	340	250	ug/Kg	1	04/07/18	DD	SW8270D	
Fluorene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Naphthalene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Phenanthrene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D	
Pyrene	360	250	ug/Kg	1	04/07/18	DD	SW8270D	
QA/QC Surrogates								
% 2-Fluorobiphenyl	26		%	1	04/07/18	DD	30 - 130 %	3
% Nitrobenzene-d5	31		%	1	04/07/18	DD	30 - 130 %	
% Terphenyl-d14	34		%	1	04/07/18	DD	30 - 130 %	
Field Extraction	Completed				04/05/18		SW5035A	

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

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

Comments:

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	14:50
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15227

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-09 TP-06 (3-4.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	4.78	0.71	mg/Kg	1	04/07/18	MA	SW6010C
Barium	187	0.35	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	0.43	0.35	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	24.6	0.35	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	0.10	0.03	mg/Kg	1	04/06/18	RS	SW7471B
Lead	304	3.5	mg/Kg	10	04/09/18	MA	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	04/07/18	MA	SW6010C
SPLP Silver	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Arsenic	0.006	0.004	mg/L	1	04/06/18	MA	SW6010C
SPLP Barium	0.023	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/06/18	MA	SW6010C
SPLP Chromium	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Mercury	< 0.0005	0.0005	mg/L	1	04/09/18	RS	SW7470A
SPLP Lead	0.032	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Selenium	< 0.020	0.020	mg/L	1	04/06/18	MA	SW6010C
SPLP Metals Digestion	Completed				04/06/18	IW/I	SW3010A
Percent Solid	85		%		04/05/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/06/18	BA/V	SW3545A
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/05/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				04/06/18	BA/VCK	SW3545A
Mercury Digestion	Completed				04/06/18	I/W	SW7471B
SPLP Digestion Mercury	Completed				04/09/18	I/I	SW1312/SW7470A
SPLP Extraction for Metals	Completed				04/05/18	i	SW1312
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15227

Client ID: 1305180405-09
TP-06 (3-4.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	510	58	mg/Kg	1	04/09/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/09/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/09/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1221	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1232	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1242	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1248	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1254	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1260	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1262	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1268	ND	380	ug/Kg	10	04/09/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	92		%	10	04/09/18	AW	30 - 150 %
% TCMX	78		%	10	04/09/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	12	7.7	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	38	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	62		%	2	04/11/18	CW	30 - 150 %
% TCMX	58		%	2	04/11/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15227
Client ID: 1305180405-09
TP-06 (3-4.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	04/08/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
2-Hexanone	ND	26	ug/Kg	1	04/08/18	JLI	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	1	04/08/18	JLI	SW8260
Acetone	ND	260	ug/Kg	1	04/08/18	JLI	SW8260
Acrylonitrile	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Benzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Bromobenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Bromochloromethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Bromoform	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Bromomethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Chlorobenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Chloroethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Chloroform	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Chloromethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	1	04/08/18	JLI	SW8260
Dibromomethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Ethylbenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
m&p-Xylene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	1	04/08/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	04/08/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	10	ug/Kg	1	04/08/18	JLI	SW8260
Naphthalene	15	5.1	ug/Kg	1	04/08/18	JLI	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
o-Xylene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Styrene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	04/08/18	JLI	SW8260
Toluene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Total Xylenes	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	04/08/18	JLI	SW8260
Trichloroethene	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
Vinyl chloride	ND	5.1	ug/Kg	1	04/08/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/08/18	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/08/18	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	04/08/18	JLI	70 - 130 %
% Toluene-d8	90		%	1	04/08/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthylene	490	270	ug/Kg	1	04/07/18	DD	SW8270D
Anthracene	630	270	ug/Kg	1	04/07/18	DD	SW8270D
Benz(a)anthracene	1700	270	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(a)pyrene	1800	270	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(b)fluoranthene	1700	270	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(ghi)perylene	1200	270	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(k)fluoranthene	1500	270	ug/Kg	1	04/07/18	DD	SW8270D
Chrysene	1900	270	ug/Kg	1	04/07/18	DD	SW8270D
Dibenz(a,h)anthracene	320	270	ug/Kg	1	04/07/18	DD	SW8270D
Fluoranthene	3100	270	ug/Kg	1	04/07/18	DD	SW8270D
Fluorene	310	270	ug/Kg	1	04/07/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1200	270	ug/Kg	1	04/07/18	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Phenanthrene	1600	270	ug/Kg	1	04/07/18	DD	SW8270D
Pyrene	2500	270	ug/Kg	1	04/07/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	45		%	1	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	45		%	1	04/07/18	DD	30 - 130 %
% Terphenyl-d14	38		%	1	04/07/18	DD	30 - 130 %
Field Extraction	Completed				04/05/18		SW5035A

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15227

Client ID: 1305180405-09
TP-06 (3-4.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C12 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 there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	15:15
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15228

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-10 TP-07 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	10.4	0.90	mg/Kg	1	04/07/18	MA	SW6010C
Barium	69.8	0.45	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	0.70	0.45	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	13.9	0.45	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	0.33	0.03	mg/Kg	1	04/09/18	RS	SW7471B
Lead	462	4.5	mg/Kg	10	04/09/18	MA	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	04/07/18	MA	SW6010C
SPLP Silver	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Arsenic	0.008	0.004	mg/L	1	04/06/18	MA	SW6010C
SPLP Barium	0.046	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/06/18	MA	SW6010C
SPLP Chromium	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Mercury	< 0.0005	0.0005	mg/L	1	04/09/18	RS	SW7470A
SPLP Lead	< 0.010	0.010	mg/L	1	04/06/18	MA	SW6010C
SPLP Selenium	< 0.020	0.020	mg/L	1	04/06/18	MA	SW6010C
SPLP Metals Digestion	Completed				04/06/18	IW/I	SW3010A
Percent Solid	75		%		04/05/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/06/18	BA/V	SW3545A
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/05/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				04/06/18	BA/VCK	SW3545A
Mercury Digestion	Completed				04/09/18	I/I	SW7471B
SPLP Digestion Mercury	Completed				04/09/18	I/I	SW1312/SW7470A
SPLP Extraction for Metals	Completed				04/05/18	i	SW1312
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15228
Client ID: 1305180405-10
TP-07 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	76	65	mg/Kg	1	04/09/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/09/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	51		%	1	04/09/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1221	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1232	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1242	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1248	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1254	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1260	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1262	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1268	ND	430	ug/Kg	10	04/09/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	69		%	10	04/09/18	AW	30 - 150 %
% TCMX	69		%	10	04/09/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
4,4' -DDE	26	8.6	ug/Kg	2	04/10/18	CW	SW8081B
4,4' -DDT	80	8.6	ug/Kg	2	04/10/18	CW	SW8081B
a-BHC	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	04/10/18	CW	SW8081B
b-BHC	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Chlordane	210	43	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Dieldrin	8.6	4.3	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan I	15	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Endrin	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	04/10/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/10/18	CW	SW8081B
Heptachlor	9.4	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Heptachlor epoxide	23	8.6	ug/Kg	2	04/10/18	CW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	04/10/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/10/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	62		%	2	04/10/18	CW	30 - 150 %
% TCMX	59		%	2	04/10/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,1,1-Trichloroethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15228
Client ID: 1305180405-10
TP-07 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	04/09/18	JLI	SW8260
1,1,2-Trichloroethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloroethene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,1-Dichloropropene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
1,2,3-Trichloropropane	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichlorobenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
1,2-Dichloroethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,2-Dichloropropane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
1,3-Dichlorobenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
1,3-Dichloropropane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
1,4-Dichlorobenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
2,2-Dichloropropane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
2-Chlorotoluene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
2-Hexanone	ND	58	ug/Kg	1	04/08/18	JLI	SW8260
2-Isopropyltoluene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
4-Chlorotoluene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
4-Methyl-2-pentanone	ND	58	ug/Kg	1	04/08/18	JLI	SW8260
Acetone	ND	580	ug/Kg	1	04/08/18	JLI	SW8260
Acrylonitrile	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Benzene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Bromobenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
Bromochloromethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Bromodichloromethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Bromoform	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Bromomethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Carbon Disulfide	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Carbon tetrachloride	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Chlorobenzene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Chloroethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Chloroform	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Chloromethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Dibromochloromethane	ND	7.0	ug/Kg	1	04/08/18	JLI	SW8260
Dibromomethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Dichlorodifluoromethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Ethylbenzene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Hexachlorobutadiene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
Isopropylbenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
m&p-Xylene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Methyl Ethyl Ketone	ND	70	ug/Kg	1	04/08/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	23	ug/Kg	1	04/08/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15228
Client ID: 1305180405-10
TP-07 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	23	ug/Kg	1	04/08/18	JLI	SW8260
Naphthalene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
n-Butylbenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
n-Propylbenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
o-Xylene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
p-Isopropyltoluene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
sec-Butylbenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
Styrene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
tert-Butylbenzene	ND	400	ug/Kg	50	04/09/18	JLI	SW8260
Tetrachloroethene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	23	ug/Kg	1	04/08/18	JLI	SW8260
Toluene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Total Xylenes	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	800	ug/Kg	50	04/09/18	JLI	SW8260
Trichloroethene	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorofluoromethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Trichlorotrifluoroethane	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
Vinyl chloride	ND	12	ug/Kg	1	04/08/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	50	04/09/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	50	04/09/18	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	04/08/18	JLI	70 - 130 %
% Toluene-d8	90		%	1	04/08/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	310	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthene	ND	310	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	04/07/18	DD	SW8270D
Anthracene	ND	310	ug/Kg	1	04/07/18	DD	SW8270D
Benz(a)anthracene	380	310	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(a)pyrene	380	310	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(b)fluoranthene	490	310	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(ghi)perylene	310	310	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(k)fluoranthene	350	310	ug/Kg	1	04/07/18	DD	SW8270D
Chrysene	460	310	ug/Kg	1	04/07/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	04/07/18	DD	SW8270D
Fluoranthene	530	310	ug/Kg	1	04/07/18	DD	SW8270D
Fluorene	ND	310	ug/Kg	1	04/07/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	310	310	ug/Kg	1	04/07/18	DD	SW8270D
Naphthalene	ND	310	ug/Kg	1	04/07/18	DD	SW8270D
Phenanthrene	ND	310	ug/Kg	1	04/07/18	DD	SW8270D
Pyrene	470	310	ug/Kg	1	04/07/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	79		%	1	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	70		%	1	04/07/18	DD	30 - 130 %
% Terphenyl-d14	73		%	1	04/07/18	DD	30 - 130 %
Field Extraction	Completed				04/05/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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.

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 there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	15:45
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15229

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-11 TP-08 (6.5-7.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	3.04	0.78	mg/Kg	1	04/07/18	MA	SW6010C
Barium	12.6	0.39	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	8.51	0.39	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/09/18	RS	SW7471B
Lead	2.77	0.39	mg/Kg	1	04/07/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/07/18	MA	SW6010C
Percent Solid	91		%		04/05/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/05/18	BJ/V	SW3545A
Mercury Digestion	Completed				04/09/18	I/I	SW7471B
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B
Pesticides							
4,4' -DDD	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
4,4' -DDE	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
4,4' -DDT	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
a-BHC	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	04/10/18	CW	SW8081B
b-BHC	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	04/10/18	CW	SW8081B
d-BHC	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15229

Client ID: 1305180405-11
TP-08 (6.5-7.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	04/10/18	CW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	04/10/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	04/10/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	04/10/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	69		%	2	04/10/18	CW	30 - 150 %
% TCMX	58		%	2	04/10/18	CW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	04/06/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	04/06/18	DD	30 - 130 %
% Nitrobenzene-d5	64		%	1	04/06/18	DD	30 - 130 %
% Terphenyl-d14	78		%	1	04/06/18	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 17, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

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 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	16:50
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15230

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-12 SS-01 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	6.66	0.85	mg/Kg	1	04/07/18	MA	SW6010C
Barium	228	0.43	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	2.71	0.43	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	16.2	0.43	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	0.87	0.03	mg/Kg	1	04/09/18	RS	SW7471B
Lead	494	4.3	mg/Kg	10	04/09/18	MA	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	04/07/18	MA	SW6010C
Percent Solid	78		%		04/05/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/05/18	BJ/CKV	SW3545A
Mercury Digestion	Completed				04/09/18	I/I	SW7471B
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B
Pesticides							
4,4' -DDD	62	8.4	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	210	84	ug/Kg	20	04/11/18	CW	SW8081B
4,4' -DDT	1500	420	ug/Kg	100	04/13/18	CW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	540	420	ug/Kg	20	04/11/18	CW	SW8081B
d-BHC	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	14	4.2	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	20	ug/Kg	2	04/11/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15230

Client ID: 1305180405-12
SS-01 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	20	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	123		%	2	04/11/18	CW	30 - 150 %
% TCMX	71		%	2	04/11/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthylene	1300	300	ug/Kg	1	04/07/18	DD	SW8270D
Anthracene	2600	300	ug/Kg	1	04/07/18	DD	SW8270D
Benz(a)anthracene	8400	300	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(a)pyrene	6200	300	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(b)fluoranthene	6800	3000	ug/Kg	10	04/09/18	DD	SW8270D
Benzo(ghi)perylene	3400	300	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(k)fluoranthene	3800	300	ug/Kg	1	04/07/18	DD	SW8270D
Chrysene	7900	300	ug/Kg	1	04/07/18	DD	SW8270D
Dibenz(a,h)anthracene	1400	300	ug/Kg	1	04/07/18	DD	SW8270D
Fluoranthene	17000	3000	ug/Kg	10	04/09/18	DD	SW8270D
Fluorene	970	300	ug/Kg	1	04/07/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	3900	300	ug/Kg	1	04/07/18	DD	SW8270D
Naphthalene	ND	300	ug/Kg	1	04/07/18	DD	SW8270D
Phenanthrene	9200	3000	ug/Kg	10	04/09/18	DD	SW8270D
Pyrene	12000	3000	ug/Kg	10	04/09/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	79		%	1	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	90		%	1	04/07/18	DD	30 - 130 %
% Terphenyl-d14	77		%	1	04/07/18	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 17, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

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 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	16:45
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15231

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-13 SS-02 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	9.67	0.66	mg/Kg	1	04/07/18	MA	SW6010C
Barium	96.1	0.33	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	< 0.33	0.33	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	18.6	0.33	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	0.07	0.03	mg/Kg	1	04/09/18	RS	SW7471B
Lead	29.9	0.33	mg/Kg	1	04/07/18	MA	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	04/07/18	MA	SW6010C
Percent Solid	91		%		04/05/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/05/18	BJ/CKV	SW3545A
Mercury Digestion	Completed				04/09/18	I/I	SW7471B
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B
Pesticides							
4,4' -DDD	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	68	7.1	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	77	7.1	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	44	36	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15231

Client ID: 1305180405-13
SS-02 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	51		%	2	04/11/18	CW	30 - 150 %
% TCMX	56		%	2	04/11/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(a)pyrene	340	250	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(b)fluoranthene	290	250	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(ghi)perylene	270	250	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(k)fluoranthene	270	250	ug/Kg	1	04/07/18	DD	SW8270D
Chrysene	280	250	ug/Kg	1	04/07/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Fluoranthene	310	250	ug/Kg	1	04/07/18	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	270	250	ug/Kg	1	04/07/18	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	04/07/18	DD	SW8270D
Pyrene	350	250	ug/Kg	1	04/07/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	49		%	1	04/07/18	DD	30 - 130 %
% Terphenyl-d14	67		%	1	04/07/18	DD	30 - 130 %

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

Comments:

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

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Phyllis Shiller, Laboratory Director
April 17, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

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

Analysis Report

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	16:40
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15232

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-14

SS-03 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/07/18	MA	SW6010C
Arsenic	22.7	0.79	mg/Kg	1	04/07/18	MA	SW6010C
Barium	189	0.40	mg/Kg	1	04/07/18	MA	SW6010C
Cadmium	< 0.40	0.40	mg/Kg	1	04/07/18	MA	SW6010C
Chromium	9.95	0.40	mg/Kg	1	04/07/18	MA	SW6010C
Mercury	11.5	0.30	mg/Kg	1	04/09/18	RS	SW7471B
Lead	33.7	0.40	mg/Kg	1	04/07/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/07/18	MA	SW6010C
Percent Solid	85		%		04/05/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/06/18	BA/V	SW3545A
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/05/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				04/06/18	BA/VCK	SW3545A
Mercury Digestion	Completed				04/09/18	I/I	SW7471B
Total Metals Digest	Completed				04/06/18	CK/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	88	mg/Kg	1	04/07/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/07/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	59		%	1	04/07/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	580	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1221	ND	580	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1232	ND	580	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1242	ND	580	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1248	ND	580	ug/Kg	10	04/09/18	AW	SW8082A

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15232

Client ID: 1305180405-14
SS-03 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	580	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1260	ND	580	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1262	ND	580	ug/Kg	10	04/09/18	AW	SW8082A
PCB-1268	ND	580	ug/Kg	10	04/09/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	04/09/18	AW	30 - 150 %
% TCMX	92		%	10	04/09/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
4,4' -DDE	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
4,4' -DDT	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
a-BHC	ND	2.3	ug/Kg	2	04/10/18	CW	SW8081B
Alachlor	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
Aldrin	ND	5.8	ug/Kg	2	04/10/18	CW	SW8081B
b-BHC	ND	5.0	ug/Kg	2	04/10/18	CW	SW8081B
Chlordane	ND	58	ug/Kg	2	04/10/18	CW	SW8081B
d-BHC	ND	2.3	ug/Kg	2	04/10/18	CW	SW8081B
Dieldrin	ND	5.8	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan I	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan II	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
Endosulfan sulfate	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
Endrin	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
Endrin aldehyde	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
Endrin ketone	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
g-BHC	ND	2.3	ug/Kg	2	04/10/18	CW	SW8081B
Heptachlor	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
Heptachlor epoxide	ND	12	ug/Kg	2	04/10/18	CW	SW8081B
Methoxychlor	ND	58	ug/Kg	2	04/10/18	CW	SW8081B
Toxaphene	ND	230	ug/Kg	2	04/10/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	71		%	2	04/10/18	CW	30 - 150 %
% TCMX	68		%	2	04/10/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Benz(a)anthracene	560	270	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(a)pyrene	530	270	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(b)fluoranthene	510	270	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(ghi)perylene	420	270	ug/Kg	1	04/07/18	DD	SW8270D
Benzo(k)fluoranthene	500	270	ug/Kg	1	04/07/18	DD	SW8270D
Chrysene	670	270	ug/Kg	1	04/07/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Fluoranthene	1100	270	ug/Kg	1	04/07/18	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	390	270	ug/Kg	1	04/07/18	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	04/07/18	DD	SW8270D

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15232

Client ID: 1305180405-14
SS-03 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	860	270	ug/Kg	1	04/07/18	DD	SW8270D
Pyrene	1300	270	ug/Kg	1	04/07/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	04/07/18	DD	30 - 130 %
% Nitrobenzene-d5	60		%	1	04/07/18	DD	30 - 130 %
% Terphenyl-d14	78		%	1	04/07/18	DD	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	16:12
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15233

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-15 SS-04 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		04/05/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction for Herbicide	Completed				04/09/18	S/D	SW8151A
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
2,4-D	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
2,4-DB	ND	2200	ug/Kg	10	04/11/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
Dichloroprop	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
Dinoseb	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	56		%	10	04/11/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	10	8.6	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	120	43	ug/Kg	10	04/11/18	CW	SW8081B
4,4' -DDT	82	43	ug/Kg	10	04/11/18	CW	SW8081B
a-BHC	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	50	34	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15233

Client ID: 1305180405-15
SS-04 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan II	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	13	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	54		%	2	04/11/18	CW	30 - 150 %
% TCMX	56		%	2	04/11/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	16:15
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15234

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-16 SS-05 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		04/05/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction for Herbicide	Completed				04/09/18	S/D	SW8151A
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
2,4-D	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
2,4-DB	ND	2200	ug/Kg	10	04/11/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
Dichloroprop	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
Dinoseb	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	61		%	10	04/11/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	130	44	ug/Kg	10	04/11/18	CW	SW8081B
4,4' -DDT	190	44	ug/Kg	10	04/11/18	CW	SW8081B
a-BHC	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	4.4	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	69	44	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	4.4	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15234

Client ID: 1305180405-16
SS-05 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan II	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	12	8.8	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	44	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	180	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	69		%	2	04/11/18	CW	30 - 150 %
% TCMX	63		%	2	04/11/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

FOR: Attn: Ms. Brianna Church
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/05/18	16:20
Location Code:	F&O	Received by:	B	04/05/18	18:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15219
Phoenix ID: CA15235

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Client ID: 1305180405-17 SS-06 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		04/05/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/06/18	BA/V	SW3545A
Soil Extraction for Herbicide	Completed				04/09/18	S/D	SW8151A
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
2,4-D	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
2,4-DB	ND	2200	ug/Kg	10	04/11/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	04/11/18	CW	SW8151A
Dichloroprop	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
Dinoseb	ND	220	ug/Kg	10	04/11/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	63		%	10	04/11/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	210	43	ug/Kg	10	04/11/18	CW	SW8081B
4,4' -DDT	220	43	ug/Kg	10	04/11/18	CW	SW8081B
a-BHC	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	43	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE RUSSO FAMILIY
Phoenix I.D.: CA15235

Client ID: 1305180405-17
SS-06 (0-0.3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endosulfan II	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	11	8.6	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	73		%	2	04/11/18	CW	30 - 150 %
% TCMX	65		%	2	04/11/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

QA/QC Data

SDG I.D.: GCA15219

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 425370 (mg/L), QC Sample No: CA14380 (CA15222, CA15223, CA15226, CA15227, CA15228)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	84.4			79.6			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 425372 (mg/kg), QC Sample No: CA14488 (CA15221, CA15222, CA15223, CA15225)														
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	75.0	71.2	5.2	73.4			70 - 130	30	m
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 425371 (mg/kg), QC Sample No: CA14917 (CA15226, CA15227)														
Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	92.2	92.6	0.4	109			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 425365 (mg/L), QC Sample No: CA15228 (CA15222, CA15223, CA15226, CA15227, CA15228)														
ICP Metals - SPLP Extraction														
Arsenic	BRL	0.004	0.008	0.007	NC	102			104			75 - 125	20	
Barium	BRL	0.010	0.046	0.046	NC	106			102			75 - 125	20	
Cadmium	BRL	0.005	<0.005	<0.005	NC	98.9			89.7			75 - 125	20	
Chromium	BRL	0.010	<0.010	<0.010	NC	99.8			94.8			75 - 125	20	
Lead	BRL	0.010	<0.010	0.011	NC	99.9			93.9			75 - 125	20	
Selenium	BRL	0.020	<0.020	<0.020	NC	105			103			75 - 125	20	
Silver	BRL	0.010	<0.010	<0.010	NC	97.3			96.4			75 - 125	20	
QA/QC Batch 425555 (mg/kg), QC Sample No: CA15406 (CA15228, CA15229, CA15230, CA15231, CA15232)														
Mercury - Soil	BRL	0.02	0.11	0.14	NC	97.6	93.6	4.2	104			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 425427 (mg/kg), QC Sample No: CA15438 (CA15221, CA15222, CA15223, CA15225, CA15226, CA15227, CA15228, CA15229, CA15230, CA15231, CA15232)														
ICP Metals - Soil														
Arsenic	BRL	0.67	3.55	4.97	NC	103			91.0			75 - 125	30	
Barium	BRL	0.33	184	142	25.8	89.9			96.4			75 - 125	30	
Cadmium	BRL	0.33	0.47	0.65	NC	96.9			89.5			75 - 125	30	
Chromium	BRL	0.33	18.4	18.3	0.50	104			100			75 - 125	30	
Lead	BRL	0.33	249	322	25.6	108			>130			75 - 125	30	m
Selenium	BRL	1.3	<1.5	<1.4	NC	101			76.6			75 - 125	30	
Silver	BRL	0.33	<0.38	<0.34	NC	100			101			75 - 125	30	

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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QA/QC Report

April 17, 2018

QA/QC Data

SDG I.D.: GCA15219

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 425221 (ug/Kg), QC Sample No: CA14665 2X (CA15222, CA15223, CA15226)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	100	99	1.0	83	115	32.3	40 - 140	30	r
4,4' -DDE	ND	1.7	96	96	0.0	79	110	32.8	40 - 140	30	r
4,4' -DDT	ND	1.7	96	97	1.0	78	112	35.8	40 - 140	30	r
a-BHC	ND	1.0	92	91	1.1	69	60	14.0	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	89	89	0.0	68	59	14.2	40 - 140	30	
b-BHC	ND	1.0	103	104	1.0	31	149	131.1	40 - 140	30	r
Chlordane	ND	33	92	93	1.1	74	63	16.1	40 - 140	30	
d-BHC	ND	3.3	91	91	0.0	67	61	9.4	40 - 140	30	
Dieldrin	ND	1.0	94	94	0.0	75	64	15.8	40 - 140	30	
Endosulfan I	ND	3.3	95	97	2.1	76	67	12.6	40 - 140	30	
Endosulfan II	ND	3.3	104	104	0.0	84	79	6.1	40 - 140	30	
Endosulfan sulfate	ND	3.3	110	111	0.9	88	124	34.0	40 - 140	30	r
Endrin	ND	3.3	95	93	2.1	81	70	14.6	40 - 140	30	
Endrin aldehyde	ND	3.3	85	82	3.6	83	120	36.5	40 - 140	30	r
Endrin ketone	ND	3.3	106	109	2.8	91	125	31.5	40 - 140	30	r
g-BHC	ND	1.0	92	92	0.0	69	60	14.0	40 - 140	30	
Heptachlor	ND	3.3	93	93	0.0	77	66	15.4	40 - 140	30	
Heptachlor epoxide	ND	3.3	96	97	1.0	75	65	14.3	40 - 140	30	
Methoxychlor	ND	3.3	119	113	5.2	90	134	39.3	40 - 140	30	r
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	87	%	91	90	1.1	79	102	25.4	30 - 150	30	
% TCMX	85	%	86	85	1.2	63	66	4.7	30 - 150	30	

Comment:

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

QA/QC Batch 425220 (ug/Kg), QC Sample No: CA14665 2X (CA15222, CA15223, CA15225, CA15226)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	33	102	100	2.0	104	98	5.9	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	107	104	2.8	112	107	4.6	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	95	%	113	111	1.8	119	115	3.4	30 - 150	30	
% TCMX (Surrogate Rec)	93	%	103	98	5.0	98	94	4.2	30 - 150	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 425631 (ug/Kg), QC Sample No: CA14843 120X (CA15233, CA15234, CA15235)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	83	67	67	0.0	69	67	2.9	40 - 140	30
2,4,5-TP (Silvex)	ND	83	78	78	0.0	75	72	4.1	40 - 140	30
2,4-D	ND	170	69	71	2.9	64	69	7.5	40 - 140	30
2,4-DB	ND	1700	67	65	3.0	63	62	1.6	40 - 140	30
Dalapon	ND	83	58	55	5.3	54	54	0.0	40 - 140	30
Dicamba	ND	83	76	78	2.6	73	68	7.1	40 - 140	30
Dichloroprop	ND	170	78	80	2.5	75	73	2.7	40 - 140	30
Dinoseb	ND	170	59	57	3.4	59	58	1.7	40 - 140	30
% DCAA (Surrogate Rec)	55	%	60	62	3.3	58	58	0.0	30 - 150	30
QA/QC Batch 425411 (ug/Kg), QC Sample No: CA14843 2X (CA15227, CA15228, CA15232)										
Pesticides - Soil										
4,4' -DDD	ND	1.7	107	110	2.8	101	98	3.0	40 - 140	30
4,4' -DDE	ND	1.7	100	108	7.7	97	94	3.1	40 - 140	30
4,4' -DDT	ND	1.7	97	105	7.9	90	87	3.4	40 - 140	30
a-BHC	ND	1.0	97	106	8.9	116	113	2.6	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	96	104	8.0	92	88	4.4	40 - 140	30
b-BHC	ND	1.0	115	123	6.7	115	109	5.4	40 - 140	30
Chlordane	ND	33	100	106	5.8	95	92	3.2	40 - 140	30
d-BHC	ND	3.3	96	101	5.1	93	88	5.5	40 - 140	30
Dieldrin	ND	1.0	98	104	5.9	94	91	3.2	40 - 140	30
Endosulfan I	ND	3.3	107	113	5.5	102	100	2.0	40 - 140	30
Endosulfan II	ND	3.3	113	118	4.3	108	108	0.0	40 - 140	30
Endosulfan sulfate	ND	3.3	115	116	0.9	106	108	1.9	40 - 140	30
Endrin	ND	3.3	85	91	6.8	91	88	3.4	40 - 140	30
Endrin aldehyde	ND	3.3	114	122	6.8	94	99	5.2	40 - 140	30
Endrin ketone	ND	3.3	112	117	4.4	103	101	2.0	40 - 140	30
g-BHC	ND	1.0	99	107	7.8	97	93	4.2	40 - 140	30
Heptachlor	ND	3.3	96	103	7.0	92	90	2.2	40 - 140	30
Heptachlor epoxide	ND	3.3	104	110	5.6	98	95	3.1	40 - 140	30
Methoxychlor	ND	3.3	101	106	4.8	94	96	2.1	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	89	%	96	99	3.1	90	96	6.5	30 - 150	30
% TCMX	71	%	77	84	8.7	73	74	1.4	30 - 150	30

Comment:

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

QA/QC Batch 425414 (ug/Kg), QC Sample No: CA14843 2X (CA15227, CA15228, CA15232)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	33	99	109	9.6	89	110	21.1	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	100	86	15.1	65	88	30.1	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	95	%	113	86	27.1	69	51	30.0	30 - 150	30

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% TCMX (Surrogate Rec)	84	%		101	100	1.0	76	49	43.2	30 - 150	30	r
QA/QC Batch 425635 (ug/kg), QC Sample No: CA15222 (CA15219 (50X) , CA15220, CA15222, CA15223, CA15226, CA15227, CA15228)												
Volatiles - Soil												
1,1,1,2-Tetrachloroethane	ND	5.0		101	99	2.0	97	91	6.4	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0		101	98	3.0	104	95	9.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0		103	102	1.0	108	94	13.9	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0		100	100	0.0	96	89	7.6	70 - 130	30	
1,1-Dichloroethane	ND	5.0		103	99	4.0	104	96	8.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0		97	92	5.3	93	87	6.7	70 - 130	30	
1,1-Dichloropropene	ND	5.0		102	97	5.0	106	99	6.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0		103	100	3.0	78	70	10.8	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0		101	98	3.0	100	88	12.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0		98	93	5.2	76	67	12.6	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0		100	94	6.2	101	89	12.6	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0		104	107	2.8	102	91	11.4	70 - 130	30	
1,2-Dibromoethane	ND	5.0		101	102	1.0	99	87	12.9	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0		99	95	4.1	93	81	13.8	70 - 130	30	
1,2-Dichloroethane	ND	5.0		101	100	1.0	95	88	7.7	70 - 130	30	
1,2-Dichloropropane	ND	5.0		102	100	2.0	101	95	6.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0		100	94	6.2	102	92	10.3	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0		99	94	5.2	93	79	16.3	70 - 130	30	
1,3-Dichloropropane	ND	5.0		100	99	1.0	97	88	9.7	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0		96	92	4.3	90	76	16.9	70 - 130	30	
2,2-Dichloropropane	ND	5.0		110	103	6.6	112	101	10.3	70 - 130	30	
2-Chlorotoluene	ND	5.0		99	94	5.2	101	90	11.5	70 - 130	30	
2-Hexanone	ND	25		103	104	1.0	100	88	12.8	70 - 130	30	
2-Isopropyltoluene	ND	5.0		108	102	5.7	108	98	9.7	70 - 130	30	
4-Chlorotoluene	ND	5.0		96	93	3.2	98	83	16.6	70 - 130	30	
4-Methyl-2-pentanone	ND	25		110	112	1.8	108	98	9.7	70 - 130	30	
Acetone	ND	10		77	78	1.3	83	62	29.0	70 - 130	30	m
Acrylonitrile	ND	5.0		111	106	4.6	106	93	13.1	70 - 130	30	
Benzene	ND	1.0		101	97	4.0	103	97	6.0	70 - 130	30	
Bromobenzene	ND	5.0		103	99	4.0	103	88	15.7	70 - 130	30	
Bromochloromethane	ND	5.0		101	100	1.0	97	88	9.7	70 - 130	30	
Bromodichloromethane	ND	5.0		105	97	7.9	91	87	4.5	70 - 130	30	
Bromoform	ND	5.0		100	98	2.0	82	75	8.9	70 - 130	30	
Bromomethane	ND	5.0		104	98	5.9	102	95	7.1	70 - 130	30	
Carbon Disulfide	ND	5.0		106	100	5.8	99	91	8.4	70 - 130	30	
Carbon tetrachloride	ND	5.0		99	93	6.3	97	90	7.5	70 - 130	30	
Chlorobenzene	ND	5.0		99	94	5.2	96	87	9.8	70 - 130	30	
Chloroethane	ND	5.0		112	102	9.3	112	103	8.4	70 - 130	30	
Chloroform	ND	5.0		104	93	11.2	95	87	8.8	70 - 130	30	
Chloromethane	ND	5.0		104	97	7.0	109	102	6.6	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0		102	97	5.0	102	93	9.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0		104	101	2.9	94	87	7.7	70 - 130	30	
Dibromochloromethane	ND	3.0		105	103	1.9	91	85	6.8	70 - 130	30	
Dibromomethane	ND	5.0		101	100	1.0	97	87	10.9	70 - 130	30	
Dichlorodifluoromethane	ND	5.0		105	101	3.9	116	106	9.0	70 - 130	30	
Ethylbenzene	ND	1.0		101	95	6.1	103	94	9.1	70 - 130	30	
Hexachlorobutadiene	ND	5.0		104	98	5.9	83	83	0.0	70 - 130	30	
Isopropylbenzene	ND	1.0		99	95	4.1	107	94	12.9	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
m&p-Xylene	ND	2.0	98	93	5.2	96	89	7.6	70 - 130	30
Methyl ethyl ketone	ND	5.0	107	100	6.8	89	73	19.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	109	106	2.8	105	96	9.0	70 - 130	30
Methylene chloride	ND	5.0	90	87	3.4	103	97	6.0	70 - 130	30
Naphthalene	ND	5.0	109	109	0.0	80	79	1.3	70 - 130	30
n-Butylbenzene	ND	1.0	100	93	7.3	95	86	9.9	70 - 130	30
n-Propylbenzene	ND	1.0	99	93	6.3	104	91	13.3	70 - 130	30
o-Xylene	ND	2.0	100	96	4.1	99	91	8.4	70 - 130	30
p-Isopropyltoluene	ND	1.0	101	95	6.1	101	91	10.4	70 - 130	30
sec-Butylbenzene	ND	1.0	105	98	6.9	106	96	9.9	70 - 130	30
Styrene	ND	5.0	100	95	5.1	92	83	10.3	70 - 130	30
tert-Butylbenzene	ND	1.0	101	95	6.1	105	94	11.1	70 - 130	30
Tetrachloroethene	ND	5.0	101	95	6.1	103	93	10.2	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	97	98	1.0	95	82	14.7	70 - 130	30
Toluene	ND	1.0	102	98	4.0	102	95	7.1	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	104	97	7.0	108	95	12.8	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	101	99	2.0	89	81	9.4	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	118	117	0.9	101	92	9.3	70 - 130	30
Trichloroethene	ND	5.0	103	100	3.0	102	93	9.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	102	99	3.0	106	97	8.9	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	108	100	7.7	107	100	6.8	70 - 130	30
Vinyl chloride	ND	5.0	102	96	6.1	106	97	8.9	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	101	101	0.0	99	101	2.0	70 - 130	30
% Bromofluorobenzene	98	%	99	100	1.0	98	99	1.0	70 - 130	30
% Dibromofluoromethane	102	%	100	102	2.0	101	99	2.0	70 - 130	30
% Toluene-d8	95	%	101	101	0.0	99	102	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%.

QA/QC Batch 425421 (ug/Kg), QC Sample No: CA15224 2X (CA15224, CA15229, CA15230, CA15231, CA15233, CA15234, CA15235)

Pesticides - Soil

4,4' -DDD	ND	1.7	101	108	6.7	83	95	13.5	40 - 140	30
4,4' -DDE	ND	1.7	99	111	11.4	83	92	10.3	40 - 140	30
4,4' -DDT	ND	1.7	97	104	7.0	80	94	16.1	40 - 140	30
a-BHC	ND	1.0	99	107	7.8	76	88	14.6	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	95	103	8.1	74	87	16.1	40 - 140	30
b-BHC	ND	1.0	111	121	8.6	115	95	19.0	40 - 140	30
Chlordane	ND	33	96	108	11.8	78	91	15.4	40 - 140	30
d-BHC	ND	3.3	97	103	6.0	76	85	11.2	40 - 140	30
Dieldrin	ND	1.0	98	108	9.7	79	91	14.1	40 - 140	30
Endosulfan I	ND	3.3	101	108	6.7	78	96	20.7	40 - 140	30
Endosulfan II	ND	3.3	107	119	10.6	87	101	14.9	40 - 140	30
Endosulfan sulfate	ND	3.3	113	124	9.3	91	106	15.2	40 - 140	30
Endrin	ND	3.3	96	103	7.0	79	92	15.2	40 - 140	30
Endrin aldehyde	ND	3.3	100	108	7.7	89	97	8.6	40 - 140	30
Endrin ketone	ND	3.3	112	128	13.3	93	109	15.8	40 - 140	30
g-BHC	ND	1.0	98	107	8.8	77	88	13.3	40 - 140	30
Heptachlor	ND	3.3	98	109	10.6	77	93	18.8	40 - 140	30
Heptachlor epoxide	ND	3.3	99	111	11.4	80	94	16.1	40 - 140	30
Methoxychlor	ND	3.3	119	92	25.6	100	114	13.1	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% DCBP	82	%		85	96	12.2	69	84	19.6	30 - 150	30	
% TCMX	76	%		84	83	1.2	64	73	13.1	30 - 150	30	

Comment:

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

QA/QC Batch 425342 (ug/kg), QC Sample No: CA15229 (CA15223, CA15226, CA15227, CA15228, CA15229, CA15230, CA15231, CA15232)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230		63	62	1.6	46	66	35.7	30 - 130	30	r
Acenaphthene	ND	230		69	68	1.5	49	65	28.1	30 - 130	30	
Acenaphthylene	ND	230		64	62	3.2	45	61	30.2	30 - 130	30	
Anthracene	ND	230		68	68	0.0	50	67	29.1	30 - 130	30	
Benz(a)anthracene	ND	230		67	67	0.0	49	64	26.5	30 - 130	30	
Benzo(a)pyrene	ND	230		66	65	1.5	47	62	27.5	30 - 130	30	
Benzo(b)fluoranthene	ND	230		66	65	1.5	50	67	29.1	30 - 130	30	
Benzo(ghi)perylene	ND	230		66	66	0.0	47	63	29.1	30 - 130	30	
Benzo(k)fluoranthene	ND	230		74	73	1.4	52	66	23.7	30 - 130	30	
Chrysene	ND	230		69	68	1.5	50	66	27.6	30 - 130	30	
Dibenz(a,h)anthracene	ND	230		70	70	0.0	51	66	25.6	30 - 130	30	
Fluoranthene	ND	230		68	68	0.0	51	67	27.1	30 - 130	30	
Fluorene	ND	230		68	67	1.5	50	66	27.6	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230		68	66	3.0	47	65	32.1	30 - 130	30	r
Naphthalene	ND	230		60	60	0.0	43	65	40.7	30 - 130	30	r
Phenanthrene	ND	230		67	67	0.0	49	66	29.6	30 - 130	30	
Pyrene	ND	230		70	70	0.0	52	69	28.1	30 - 130	30	
% 2-Fluorobiphenyl	67	%		64	62	3.2	36	62	53.1	30 - 130	30	r
% Nitrobenzene-d5	62	%		59	56	5.2	33	61	59.6	30 - 130	30	r
% Terphenyl-d14	69	%		68	68	0.0	39	68	54.2	30 - 130	30	r

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 425747 (ug/kg), QC Sample No: CA15335 (CA15228 (50X))

Volatiles - Soil

1,1,2,2-Tetrachloroethane	ND	3.0	99	104	4.9	97	99	2.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	101	104	2.9	91	84	8.0	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	93	97	4.2	97	96	1.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	99	100	1.0	86	81	6.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	96	96	0.0	91	88	3.4	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	96	98	2.1	88	86	2.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	95	96	1.0	91	90	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	96	98	2.1	87	86	1.2	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	95	96	1.0	85	83	2.4	70 - 130	30	
2-Chlorotoluene	ND	5.0	95	96	1.0	91	89	2.2	70 - 130	30	
2-Isopropyltoluene	ND	5.0	104	106	1.9	98	94	4.2	70 - 130	30	
4-Chlorotoluene	ND	5.0	95	95	0.0	87	86	1.2	70 - 130	30	
Bromobenzene	ND	5.0	99	101	2.0	92	91	1.1	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	103	1.0	90	82	9.3	70 - 130	30	
Isopropylbenzene	ND	1.0	96	97	1.0	93	91	2.2	70 - 130	30	
Naphthalene	ND	5.0	105	108	2.8	101	95	6.1	70 - 130	30	
n-Butylbenzene	ND	1.0	98	98	0.0	88	83	5.8	70 - 130	30	
n-Propylbenzene	ND	1.0	96	96	0.0	89	88	1.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	97	98	1.0	91	87	4.5	70 - 130	30	

QA/QC Data

SDG I.D.: GCA15219

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
sec-Butylbenzene	ND	1.0	100	100	0.0	94	90	4.3	70 - 130	30	
tert-Butylbenzene	ND	1.0	96	96	0.0	92	89	3.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	125	130	3.9	116	115	0.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	97	%	101	101	0.0	102	102	0.0	70 - 130	30	
% Bromofluorobenzene	99	%	99	101	2.0	101	99	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%.

QA/QC Batch 425424 (mg/Kg), QC Sample No: CA15459 (CA15221, CA15222, CA15223, CA15226, CA15227, CA15228, CA15232)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	87	85	2.3	84	87	3.5	60 - 120	30	
% n-Pentacosane	70	%	83	80	3.7	82	83	1.2	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 425416 (ug/kg), QC Sample No: CA15539 10X (CA15221, CA15222, CA15225)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	130	49	58	16.8	57	61	6.8	30 - 130	30	
Acenaphthene	ND	130	55	69	22.6	66	74	11.4	30 - 130	30	
Acenaphthylene	ND	130	49	62	23.4	60	66	9.5	30 - 130	30	
Anthracene	ND	130	54	70	25.8	69	77	11.0	30 - 130	30	
Benz(a)anthracene	ND	130	51	66	25.6	64	74	14.5	30 - 130	30	
Benzo(a)pyrene	ND	130	55	74	29.5	71	82	14.4	30 - 130	30	
Benzo(b)fluoranthene	ND	130	54	71	27.2	68	78	13.7	30 - 130	30	
Benzo(ghi)perylene	ND	130	57	77	29.9	72	84	15.4	30 - 130	30	
Benzo(k)fluoranthene	ND	130	58	78	29.4	75	86	13.7	30 - 130	30	
Chrysene	ND	130	52	68	26.7	66	75	12.8	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	60	82	31.0	77	90	15.6	30 - 130	30	r
Fluoranthene	ND	130	51	64	22.6	63	72	13.3	30 - 130	30	
Fluorene	ND	130	53	67	23.3	65	72	10.2	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	130	55	76	32.1	71	83	15.6	30 - 130	30	r
Naphthalene	ND	130	49	59	18.5	58	61	5.0	30 - 130	30	
Phenanthrene	ND	130	52	67	25.2	66	74	11.4	30 - 130	30	
Pyrene	ND	130	53	69	26.2	67	76	12.6	30 - 130	30	
% 2-Fluorobiphenyl	68	%	51	60	16.2	60	67	11.0	30 - 130	30	
% Nitrobenzene-d5	82	%	59	69	15.6	74	78	5.3	30 - 130	30	
% Terphenyl-d14	73	%	52	64	20.7	66	76	14.1	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%)

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
April 17, 2018

Tuesday, April 17, 2018

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GCA15219 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA15227	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1200	270	1000	1000	ug/Kg
CA15227	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	270	1000	1000	ug/Kg
CA15227	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1800	270	1000	1000	ug/Kg
CA15227	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1700	270	1000	1000	ug/Kg
CA15227	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1200	270	1000	1000	ug/Kg
CA15227	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1900	270	1000	1000	ug/Kg
CA15227	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1200	270	1000	1000	ug/Kg
CA15227	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1700	270	1000	1000	ug/Kg
CA15227	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1800	270	1000	1000	ug/Kg
CA15227	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1700	270	1000	1000	ug/Kg
CA15227	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1500	270	1000	1000	ug/Kg
CA15227	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	510	58	500	500	mg/Kg
CA15228	$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	210	43	66	66	ug/Kg
CA15228	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	26	8.6	20	20	ug/Kg
CA15228	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	80	8.6	20	20	ug/Kg
CA15228	$PEST_SMR	Heptachlor epoxide	CT / RSR GB (mg/kg) / Pesticides/TPH	23	8.6	20	20	ug/Kg
CA15228	$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	210	43	66	66	ug/Kg
CA15228	$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	8.6	4.3	7	7	ug/Kg
CA15228	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	10.4	0.90	10	10	mg/Kg
CA15228	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	462	4.5	400	400	mg/Kg
CA15230	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	3900	300	1000	1000	ug/Kg
CA15230	$8100SMR	Dibenz(a,h)anthracene	CT / RSR DEC RES (mg/kg) / APS Organics	1400	300	1000	1000	ug/Kg
CA15230	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	6200	300	1000	1000	ug/Kg
CA15230	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	8400	300	1000	1000	ug/Kg
CA15230	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	6800	3000	1000	1000	ug/Kg
CA15230	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	3900	300	1000	1000	ug/Kg
CA15230	$8100SMR	Dibenz(a,h)anthracene	CT / RSR GB (mg/kg) / APS Organics	1400	300	1000	1000	ug/Kg
CA15230	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	7900	300	1000	1000	ug/Kg
CA15230	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	3400	300	1000	1000	ug/Kg
CA15230	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	8400	300	1000	1000	ug/Kg
CA15230	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	3800	300	1000	1000	ug/Kg
CA15230	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	6800	3000	1000	1000	ug/Kg
CA15230	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	6200	300	1000	1000	ug/Kg
CA15230	$PEST_SMR	Chlordane	CT / RSR DEC RES (mg/kg) / APS Organics	540	420	490	490	ug/Kg
CA15230	$PEST_SMR	Chlordane	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	540	420	490	490	ug/Kg
CA15230	$PEST_SMR	4,4' -DDD	CT / RSR GB (mg/kg) / APS Organics	62	8.4	20	20	ug/Kg
CA15230	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	210	84	20	20	ug/Kg
CA15230	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	1500	420	20	20	ug/Kg
CA15230	$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	540	420	66	66	ug/Kg
CA15230	$PEST_SMR	Dieldrin	CT / RSR GB (mg/kg) / Pesticides/TPH	14	4.2	7	7	ug/Kg

Tuesday, April 17, 2018

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GCA15219 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA15230	$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	540	420	66	66	ug/Kg
CA15230	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	494	4.3	400	400	mg/Kg
CA15231	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	77	7.1	20	20	ug/Kg
CA15231	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	68	7.1	20	20	ug/Kg
CA15232	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	22.7	0.79	10	10	mg/Kg
CA15233	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	120	43	20	20	ug/Kg
CA15233	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	82	43	20	20	ug/Kg
CA15234	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	130	44	20	20	ug/Kg
CA15234	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	190	44	20	20	ug/Kg
CA15234	$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	69	44	66	66	ug/Kg
CA15234	$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	69	44	66	66	ug/Kg
CA15235	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	220	43	20	20	ug/Kg
CA15235	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	210	43	20	20	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this 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 RUSSO F ***Project Number:***

Laboratory Sample ID(s): CA15219-CA15235 ***Sampling Date(s):*** 4/5/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8082, 8151, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **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 acheived? See Sections: PCB Narration, PEST Narration, SVOA 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: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Tuesday, April 17, 2018

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 17, 2018

SDG I.D.: GCA15219

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? Yes.

Instrument:

AU-FID1 04/09/18-1 Jeff Bucko, Chemist 04/09/18

CA15226

The initial calibration (ETPH302I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 04/06/18-1 Jeff Bucko, Chemist 04/06/18

CA15221, CA15222, CA15223, CA15232

The initial calibration (ETPH328I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 04/09/18-1 Jeff Bucko, Chemist 04/09/18

CA15227, CA15228

The initial calibration (ETPH328I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 425424 (CA15459)

CA15221, CA15222, CA15223, CA15226, CA15227, CA15228, CA15232

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Herbicide Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD12 04/10/18-1 Carol Wohlmuth, Chemist 04/10/18

CA15233, CA15234, CA15235

The initial calibration (HRB404AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRB404BI) 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.

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RCP Certification Report

April 17, 2018

SDG I.D.: GCA15219

Herbicide Narration

QC (Batch Specific):

Batch 425631 (CA14843)

CA15233, CA15234, CA15235

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.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 04/06/18 08:08 Rick Schweitzer, Chemist 04/06/18

CA15226, CA15227

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
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 04/09/18 07:54 Rick Schweitzer, Chemist 04/09/18

CA15221, CA15222, CA15223, CA15225, CA15226, CA15227, CA15228, CA15229, CA15230, CA15231, CA15232

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
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 425370 (CA14380)

CA15222, CA15223, CA15226, CA15227, CA15228

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%.

Batch 425371 (CA14917)

CA15226, CA15227

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-

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Certification Report

April 17, 2018

SDG I.D.: GCA15219

Mercury Narration

125%.

Batch 425372 (CA14488)

CA15221, CA15222, CA15223, CA15225

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 425555 (CA15406)

CA15228, CA15229, CA15230, CA15231, CA15232

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 04/06/18 10:02 Mike Arsenault, Chemist 04/06/18

CA15221, CA15222, CA15223, CA15225, CA15226, CA15227, CA15228, CA15229, CA15230, CA15231, CA15232

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 04/09/18 07:19 Mike Arsenault, Chemist 04/09/18

CA15223, CA15227, CA15228, CA15230

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.

BLUE 04/06/18 07:28 Mike Arsenault, Chemist 04/06/18

CA15222, CA15223, CA15226, CA15227, CA15228

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.

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Certification Report

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SDG I.D.: GCA15219

ICP Metals Narration

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 425427 (CA15438)

CA15221, CA15222, CA15223, CA15225, CA15226, CA15227, CA15228, CA15229, CA15230, CA15231, CA15232

All LCS recoveries were within 75 - 125 with the following exceptions: None.

QC (Site Specific):

Batch 425365 (CA15228)

CA15222, CA15223, CA15226, CA15227, CA15228

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

PCB Narration

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

QC Batch 425414 (Samples: CA15227, CA15228, CA15232): -----

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% TCMX (Surrogate Rec))

Instrument:

AU-ECD24 04/06/18-1 Adam Werner, Chemist 04/06/18

CA15222, CA15223, CA15225, CA15226

The initial calibration (PC329AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC329BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 04/09/18-1 Adam Werner, Chemist 04/09/18

CA15227, CA15228, CA15232

The initial calibration (PC329AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC329BI) 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 425220 (CA14665)

CA15222, CA15223, CA15225, CA15226

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 425414 (CA14843)

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PCB Narration

CA15227, CA15228, CA15232

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 425221 (Samples: CA15222, CA15223, CA15226): -----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (4,4" -DDD, 4,4" -DDE, 4,4" -DDT, b-BHC, Endosulfan sulfate, Endrin aldehyde, Endrin ketone, Methoxychlor)

Instrument:

AU-ECD10 04/13/18-1 Carol Wohlmuth, Chemist 04/13/18

CA15222, CA15223, CA15226

The initial calibration (PS410AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS410BI) 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: CA15222, CA15223, CA15226
Preceding CC 413B005 - b-BHC 24%H (20%)
Succeeding CC 413B020 - b-BHC 22%H (20%)

AU-ECD4 04/11/18-2 Carol Wohlmuth, Chemist 04/11/18

CA15228, CA15234, CA15235

The initial calibration (PS402AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS402BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD4 04/13/18-1 Carol Wohlmuth, Chemist 04/13/18

CA15230

The initial calibration (PS402AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS402BI) 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 04/10/18-1 Carol Wohlmuth, Chemist 04/10/18

CA15224, CA15228, CA15229, CA15232

The initial calibration (PS404AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS404BI) 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:None.

AU-ECD7 04/11/18-1 Carol Wohlmuth, Chemist 04/11/18

CA15227, CA15230, CA15231, CA15233

The initial calibration (PS404AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS404BI) 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 425221 (CA14665)

CA15222, CA15223, CA15226

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.
Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

Batch 425411 (CA14843)

CA15227, CA15228, CA15232

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.
Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

QC (Site Specific):

Batch 425421 (CA15224)

CA15224, CA15229, CA15230, CA15231, CA15233, CA15234, CA15235

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.
Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

SVOA Narration

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SDG I.D.: GCA15219

SVOA Narration

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

QC Batch 425342 (Samples: CA15223, CA15226, CA15227, CA15228, CA15229, CA15230, CA15231, CA15232): -----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (2-Methylnaphthalene, Indeno(1,2,3-cd)pyrene, Naphthalene)

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2-Fluorobiphenyl, % Nitrobenzene-d5, % Terphenyl-d14)

Instrument:

CHEM19 04/06/18-1 Damien Drobinski, Chemist 04/06/18

CA15223, CA15226

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration Verification (CHEM19/SPLIT_0402):
98% 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 (CHEM19/0406_04-SPLIT_0402):
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 recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM27 04/06/18-1 Damien Drobinski, Chemist 04/06/18

CA15229

Initial Calibration Verification (CHEM27/SPLIT_0402):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0406_02-SPLIT_0402):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM27 04/06/18-2 Damien Drobinski, Chemist 04/06/18

CA15227, CA15228, CA15230, CA15231, CA15232

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SVOA Narration

Initial Calibration Verification (CHEM27/SPLIT_0402):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0406_24-SPLIT_0402):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM27 04/09/18-1 Damien Drobinski, Chemist 04/09/18

CA15230

Initial Calibration Verification (CHEM27/SPLIT_0402):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0409_02-SPLIT_0402):
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 recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 425416 (CA15539)

CA15221, CA15222, CA15225

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: Dibenz(a,h)anthracene(31.0%), Indeno(1,2,3-cd)pyrene(32.1%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
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 425342 (CA15229)

CA15223, CA15226, CA15227, CA15228, CA15229, CA15230, CA15231, CA15232

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.

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SDG I.D.: GCA15219

SVOA Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % 2-Fluorobiphenyl(53.1%), % Nitrobenzene-d5(59.6%), % Terphenyl-d14(54.2%), 2-Methylnaphthalene(35.7%), Indeno(1,2,3-cd)pyrene(32.1%), Naphthalene(40.7%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

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

QC Batch 425416 (Samples: CA15221, CA15222, CA15225): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Dibenz(a,h)anthracene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Indeno(1,2,3-cd)pyrene)

Instrument:

CHEM06 04/06/18-1 Damien Drobinski, Chemist 04/06/18

CA15221, CA15222, CA15225

Initial Calibration Verification (CHEM06/BNSIM_0405):
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 (CHEM06/0406_04-BNSIM_0405):
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 425416 (CA15539)

CA15221, CA15222, CA15225

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: Dibenz(a,h)anthracene(31.0%), Indeno(1,2,3-cd)pyrene(32.1%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

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RCP Certification Report

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SDG I.D.: GCA15219

SVOASIM Narration

QC (Site Specific):

Batch 425342 (CA15229)

CA15223, CA15226, CA15227, CA15228, CA15229, CA15230, CA15231, CA15232

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % 2-Fluorobiphenyl(53.1%), % Nitrobenzene-d5(59.6%), % Terphenyl-d14(54.2%), 2-Methylnaphthalene(35.7%), Indeno(1,2,3-cd)pyrene(32.1%), Naphthalene(40.7%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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

QC Batch 425635 (Samples: CA15219, CA15220, CA15222, CA15223, CA15226, CA15227, CA15228): -----

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. (1,2,4-Trichlorobenzene, Acetone)

Instrument:

CHEM14 04/08/18-2 Jane Li, Chemist 04/08/18

CA15219, CA15220, CA15222, CA15223, CA15226, CA15227, CA15228

Initial Calibration Verification (CHEM14/VT-0408):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 23% (20%), trans-1,4-dichloro-2-butene 21% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM14/0408_09-VT-0408):
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.

CHEM14 04/09/18-1 Jane Li, Chemist 04/09/18

CA15228

Initial Calibration Verification (CHEM14/VT-0408):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: trans-1,4-dichloro-2-butene 21% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM14/0409_04-VT-0408):

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VOA Narration

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 recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 425747 (CA15335)

CA15228

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%.

QC (Site Specific):

Batch 425635 (CA15222)

CA15219, CA15220, CA15222, CA15223, CA15226, CA15227, CA15228

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,4-Trichlorobenzene(67%), Acetone(62%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 1.3C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

13°C/ICE/P

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☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 39112

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
RIVERFRONT RECAPTURE - RUSSO FAMILY PROPERTIES	HARTFORD/WINDSOR, CT	20170279.A10	PHOENIX

REPORT TO: BRIANNA CHURCH (F&O)
INVOICE TO:
P.O. NO.:
Sampler's Signature: Date: 4/5/18

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 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	PCBs	METALS (RCRA8)	PESTICIDES	HERBICIDES	SPLP METALS	Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container (4) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml ☐ As is ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					1305180405-01	X	4/5/18	~~0745~~ 0745	X								1											15219
02					-02	X		0750	X									2										15220
03					-03	S		0910		X	X		X						2										15221
04					-04			0930	X	X	X	X	X	X		X	1	2	3										15222
05					-05			0955	X	X	X	X	X	X		X	1	2	3										15223
06					-06			1005						X					1									15224
07					-07			1030			X	X	X						2										15225
08					-08			1410	X	X	X	X	X	X		X	1	2	3										15226
09					-09			1450	X	X	X	X	X	X		X	1	2	3										15227
10					-10			1515	X	X	X	X	X	X		X	1	2	3										15228

Transfer Number	Relinquished By	Accepted By	Date	Time
1		Krystal Burnett	4/5/18	18:02
2				
3				
4				

Charge Exceptions: X CT Tax Exempt X QA/QC ☐ Other _____
____ Duplicates 2 Blanks (Item Nos: 01, 02)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
RES DEC, GB PMC
Additional Comments:

Page 1 of 1

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

1.30 4 cell

- [X] 146 Hartford Road, Manchester, CT 06040
- [ ] 56 Quarry Road, Trumbull, CT 06611
- [ ] 1419 Richland Street, Columbia, SC 29201
- [ ] 78 Interstate Drive, West Springfield, MA 01089
- [ ] 317 Iron Horse Way, Suite 204, Providence, RI 02908
- [ ] 80 Washington Street, Suite 301, Poughkeepsie, NY
- [ ] Other _____

CHAIN-OF-CUSTODY RECORD 39113

Turnaround
- [ ] 24-Hour*
- [ ] 48-Hour*
- [ ] 72-Hour*
- [X] Standard (____ days)
- [ ] Other _____ (days)

*Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
RIVERFRONT RECAPTURE - RUSSO FAMILY PROPERTIES	HARTFORD/WINDSOR	20170277.A10	PHOENIX

REPORT TO: BRIANNA CHURCH (F&O)

INVOICE TO: ↓

P.O. NO.:

Sampler's Signature: [signature] Date: 4/5/18

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 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: PAHs	RCRA 8 Metals	Pesticides	ETPH	TPHs	PCBs	Herbicides	Containers: Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (4) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500 ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
11					1305180405 - 11	S	4/5/18	1545	X	X	X							2								15229
12					-12			1650	X	X	X							2								15230
13					-13			1645	X	X	X							2								15231
14					-14			1640	X	X	X	X	X					2								15232
15					-15			1612			X			X				1								15233
16					-16			1615			X			X				1								15234
17					-17			1620			X			X				1								15235
18					-18			1625										1				15236				HOLD
19					-19			1630										1				15237				HOLD
20					-20	↓	↓	1635										1				15238				HOLD

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	Krupal Bunce	4/5/18	18:02
2				
3				
4				

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

Reporting and Detection Limit Requirements: [X] RCP Deliverables ☐ MCP CAM Cert.

RESDEC, GBPMC

Additional Comments:

Friday, April 13, 2018

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

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Sample ID#s: CA15909 - CA15917, CA15919, CA15921

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

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

Analysis Report

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	7:50
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15909

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-21 TB-High

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	04/10/18	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	04/10/18	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	04/10/18	JLI	SW8260
1,2-Dibromoethane	ND	25	ug/Kg	50	04/10/18	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,2-Dichloroethane	ND	200	ug/Kg	50	04/10/18	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	04/10/18	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	04/10/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-21

Phoenix I.D.: CA15909

TB-High

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	04/10/18	JLI	SW8260
Acrylonitrile	ND	100	ug/Kg	50	04/10/18	JLI	SW8260
Benzene	ND	200	ug/Kg	50	04/10/18	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Bromodichloromethane	ND	210	ug/Kg	50	04/10/18	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	100	ug/Kg	50	04/10/18	JLI	SW8260
Dibromochloromethane	ND	100	ug/Kg	50	04/10/18	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	04/10/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	04/10/18	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Styrene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	04/10/18	JLI	SW8260
Toluene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	100	ug/Kg	50	04/10/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	04/10/18	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	04/10/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	50	04/10/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	50	04/10/18	JLI	70 - 130 %
% Dibromofluoromethane	98		%	50	04/10/18	JLI	70 - 130 %

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-21
TB-High
Phoenix I.D.: CA15909

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	94		%	50	04/10/18	JLI	70 - 130 %
Field Extraction	Completed				04/06/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 13, 2018
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

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	7:55
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15910

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-22 TB-Low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	04/09/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	04/09/18	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	04/09/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-22

Phoenix I.D.: CA15910

TB-Low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	04/09/18	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	04/09/18	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	04/09/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	04/09/18	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	04/09/18	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	04/09/18	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	04/09/18	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	04/09/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/09/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/09/18	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	04/09/18	JLI	70 - 130 %

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15910

Client ID: 1305180406-22
TB-Low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	96		%	1	04/09/18	JLI	70 - 130 %
Field Extraction	Completed				04/06/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 13, 2018
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

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	8:30
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15911

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-23 SB-01 (6-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	2.58	0.77	mg/Kg	1	04/10/18	MA	SW6010C
Barium	8.52	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	7.93	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	04/10/18	MA	SW6010C
SPLP Silver	< 0.010	0.010	mg/L	1	04/09/18	EK	SW6010C
SPLP Arsenic	< 0.004	0.004	mg/L	1	04/09/18	EK	SW6010C
SPLP Barium	< 0.010	0.010	mg/L	1	04/09/18	EK	SW6010C
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/09/18	EK	SW6010C
SPLP Chromium	< 0.010	0.010	mg/L	1	04/09/18	EK	SW6010C
SPLP Mercury	< 0.0005	0.0005	mg/L	1	04/10/18	RS	SW7470A
SPLP Lead	< 0.010	0.010	mg/L	1	04/09/18	EK	SW6010C
SPLP Selenium	< 0.020	0.020	mg/L	1	04/09/18	EK	SW6010C
SPLP Metals Digestion	Completed				04/09/18	IW/I	SW3010A
Percent Solid	85		%		04/06/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/09/18	IW/V	SW3545A
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Extraction of CT ETPH	Completed				04/09/18	W/VCK	SW3545A
Mercury Digestion	Completed				04/10/18	I/Q/I	SW7471B
SPLP Digestion Mercury	Completed				04/09/18	IW/I	SW1312/SW7470A
SPLP Extraction for Metals	Completed				04/06/18	I	SW1312
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15911
Client ID: 1305180406-23
SB-01 (6-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/10/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/10/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/10/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1221	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1232	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1242	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1248	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1254	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1260	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1262	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1268	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	80		%	10	04/11/18	AW	30 - 150 %
% TCMX	63		%	10	04/11/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	39	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	64		%	2	04/11/18	CW	30 - 150 %
% TCMX	49		%	2	04/11/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,1,1-Trichloroethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-23
SB-01 (6-8')
Phoenix I.D.: CA15911

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2-Trichloroethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloropropene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichloropropane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichloroethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichloropropane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichloropropane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
2,2-Dichloropropane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
2-Chlorotoluene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
2-Hexanone	ND	35	ug/Kg	1	04/10/18	JLI	SW8260
2-Isopropyltoluene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
4-Chlorotoluene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
4-Methyl-2-pentanone	ND	35	ug/Kg	1	04/10/18	JLI	SW8260
Acetone	ND	350	ug/Kg	1	04/10/18	JLI	SW8260
Acrylonitrile	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Benzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Bromobenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Bromochloromethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Bromodichloromethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Bromoform	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Bromomethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Carbon Disulfide	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Carbon tetrachloride	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Chlorobenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Chloroethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Chloroform	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Chloromethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Dibromochloromethane	ND	4.2	ug/Kg	1	04/10/18	JLI	SW8260
Dibromomethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Dichlorodifluoromethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Ethylbenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Hexachlorobutadiene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Isopropylbenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
m&p-Xylene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Methyl Ethyl Ketone	ND	42	ug/Kg	1	04/10/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	04/10/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	14	ug/Kg	1	04/10/18	JLI	SW8260
Naphthalene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
n-Butylbenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
n-Propylbenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
o-Xylene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
p-Isopropyltoluene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
sec-Butylbenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Styrene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
tert-Butylbenzene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Tetrachloroethene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	04/10/18	JLI	SW8260
Toluene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Total Xylenes	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	04/10/18	JLI	SW8260
Trichloroethene	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorofluoromethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorotrifluoroethane	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
Vinyl chloride	ND	7.1	ug/Kg	1	04/10/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/10/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/10/18	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	04/10/18	JLI	70 - 130 %
% Toluene-d8	95		%	1	04/10/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Chrysene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	82		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	73		%	10	04/10/18	DD	30 - 130 %
Field Extraction	Completed				04/06/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 13, 2018
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

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	8:55
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15912

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-24 MW-01 (10-11.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	2.98	0.79	mg/Kg	1	04/10/18	MA	SW6010C
Barium	21.0	0.40	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.40	0.40	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	13.0	0.40	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	6.32	0.40	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/10/18	MA	SW6010C
Percent Solid	89		%		04/06/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/09/18	IW/V	SW3545A
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Extraction of CT ETPH	Completed				04/09/18	W/VCK	SW3545A
Mercury Digestion	Completed				04/10/18	I/Q/I	SW7471B
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	280	mg/Kg	5	04/10/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	04/10/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	5	04/10/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	04/11/18	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	370	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1262	ND	370	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	04/11/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	92		%	10	04/11/18	AW	30 - 150 %
% TCMX	82		%	10	04/11/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	68		%	2	04/11/18	CW	30 - 150 %
% TCMX	64		%	2	04/11/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	04/10/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
1,2,3-Trichloropropane	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromoethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichlorobenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15912

Client ID: 1305180406-24
MW-01 (10-11.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
1,3-Dichlorobenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,4-Dichlorobenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
2-Chlorotoluene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	04/10/18	JLI	SW8260
2-Isopropyltoluene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
4-Chlorotoluene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	04/10/18	JLI	SW8260
Acetone	ND	280	ug/Kg	1	04/10/18	JLI	SW8260
Acrylonitrile	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Benzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromobenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
Bromochloromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromoform	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromomethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Chlorobenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Chloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Chloroform	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Chloromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	1	04/10/18	JLI	SW8260
Dibromomethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Ethylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Hexachlorobutadiene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
Isopropylbenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
m&p-Xylene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	1	04/10/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Naphthalene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
n-Butylbenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
n-Propylbenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
o-Xylene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
p-Isopropyltoluene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
sec-Butylbenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
Styrene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
tert-Butylbenzene	ND	280	ug/Kg	50	04/10/18	JLI	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Toluene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Total Xylenes	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	570	ug/Kg	50	04/10/18	JLI	SW8260
Trichloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Vinyl chloride	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	50	04/10/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	04/10/18	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	04/10/18	JLI	70 - 130 %
% Toluene-d8	86		%	1	04/10/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	380	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	450	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	340	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	420	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	340	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Chrysene	420	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	670	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	460	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	420	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	700	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	70		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	59		%	10	04/10/18	DD	30 - 130 %
Field Extraction	Completed				04/06/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 13, 2018
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

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	9:45
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15913

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-25 SB-02 (6-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	1.92	0.78	mg/Kg	1	04/10/18	MA	SW6010C
Barium	11.1	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	7.95	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	2.05	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/10/18	MA	SW6010C
Percent Solid	83		%		04/06/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Mercury Digestion	Completed				04/10/18	I/Q/I	SW7471B
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B
Pesticides							
4,4' -DDD	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	40	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-25

Phoenix I.D.: CA15913

SB-02 (6-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	7.9	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	76		%	2	04/11/18	CW	30 - 150 %
% TCMX	59		%	2	04/11/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Chrysene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	83		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	71		%	10	04/10/18	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

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 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	10:05
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15914

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-26 MW-02 (10-12.4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	4.14	0.81	mg/Kg	1	04/10/18	MA	SW6010C
Barium	49.6	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.41	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	19.6	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	4.40	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/10/18	MA	SW6010C
Percent Solid	79		%		04/06/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/09/18	IW/V	SW3545A
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Extraction of CT ETPH	Completed				04/09/18	W/VCK	SW3545A
Mercury Digestion	Completed				04/10/18	I/Q/I	SW7471B
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	04/10/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/10/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/10/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	410	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1221	ND	410	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1232	ND	410	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1242	ND	410	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1248	ND	410	ug/Kg	10	04/11/18	AW	SW8082A

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15914
Client ID: 1305180406-26
MW-02 (10-12.4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	410	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1260	ND	410	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1262	ND	410	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1268	ND	410	ug/Kg	10	04/11/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	103		%	10	04/11/18	AW	30 - 150 %
% TCMX	78		%	10	04/11/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	4.1	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	41	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	81		%	2	04/11/18	CW	30 - 150 %
% TCMX	63		%	2	04/11/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-26

Phoenix I.D.: CA15914

MW-02 (10-12.4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	04/10/18	JLI	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
4-Chlorotoluene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	04/10/18	JLI	SW8260
Acetone	ND	280	ug/Kg	1	04/10/18	JLI	SW8260
Acrylonitrile	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Benzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Bromobenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Bromochloromethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Bromoform	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Bromomethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Chlorobenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Chloroethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Chloroform	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Chloromethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	1	04/10/18	JLI	SW8260
Dibromomethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Ethylbenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Isopropylbenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
m&p-Xylene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	1	04/10/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Naphthalene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
o-Xylene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Styrene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Toluene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Total Xylenes	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Trichloroethene	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
Vinyl chloride	ND	5.6	ug/Kg	1	04/10/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	04/10/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	04/10/18	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	04/10/18	JLI	70 - 130 %
% Toluene-d8	93		%	1	04/10/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Chrysene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	43		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	52		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	43		%	10	04/10/18	DD	30 - 130 %
Field Extraction	Completed				04/06/18		SW5035A

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15914

Client ID: 1305180406-26
MW-02 (10-12.4')

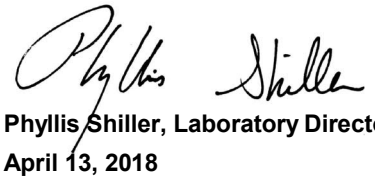
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
April 13, 2018
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

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	10:15
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15915

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-27

MW-02 Field Duplicate (10-12.4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	3.14	0.81	mg/Kg	1	04/10/18	MA	SW6010C
Barium	52.1	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.41	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	19.5	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	4.37	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/10/18	MA	SW6010C
Percent Solid	79		%		04/06/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/09/18	IW/V	SW3545A
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Extraction of CT ETPH	Completed				04/09/18	W/VCK	SW3545A
Mercury Digestion	Completed				04/10/18	I/Q/I	SW7471B
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	62	mg/Kg	1	04/10/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/10/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	04/10/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	420	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1221	ND	420	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1232	ND	420	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1242	ND	420	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1248	ND	420	ug/Kg	10	04/11/18	AW	SW8082A

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15915
Client ID: 1305180406-27
MW-02 Field Duplicate (10-12.4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	420	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1260	ND	420	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1262	ND	420	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1268	ND	420	ug/Kg	10	04/11/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	96		%	10	04/11/18	AW	30 - 150 %
% TCMX	84		%	10	04/11/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	79		%	2	04/11/18	CW	30 - 150 %
% TCMX	67		%	2	04/11/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15915

Client ID: 1305180406-27

MW-02 Field Duplicate (10-12.4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	04/10/18	JLI	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	04/10/18	JLI	SW8260
Acetone	ND	280	ug/Kg	1	04/10/18	JLI	SW8260
Acrylonitrile	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Benzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Bromobenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Bromochloromethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Bromoform	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Bromomethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Chlorobenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Chloroethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Chloroform	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Chloromethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	1	04/10/18	JLI	SW8260
Dibromomethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Ethylbenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
m&p-Xylene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	1	04/10/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Naphthalene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
o-Xylene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Styrene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Toluene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Total Xylenes	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15915

Client ID: 1305180406-27
MW-02 Field Duplicate (10-12.4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Trichloroethene	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
Vinyl chloride	ND	5.7	ug/Kg	1	04/10/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/10/18	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	04/10/18	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	04/10/18	JLI	70 - 130 %
% Toluene-d8	93		%	1	04/10/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Chrysene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	76		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	70		%	10	04/10/18	DD	30 - 130 %
Field Extraction	Completed				04/06/18		SW5035A

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP Phoenix I.D.: CA15915

Client ID: 1305180406-27 MW-02 Field Duplicate (10-12.4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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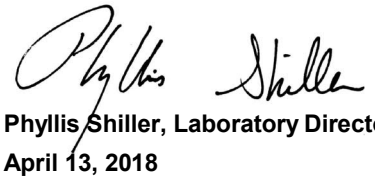

Phyllis Shiller, Laboratory Director

April 13, 2018

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

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	11:15
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15916

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-28 SB-03 (0.5-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	3.21	0.77	mg/Kg	1	04/10/18	MA	SW6010C
Barium	69.0	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	16.5	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	26.0	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	04/10/18	MA	SW6010C
SPLP Silver	< 0.010	0.010	mg/L	1	04/09/18	EK	SW6010C
SPLP Arsenic	< 0.004	0.004	mg/L	1	04/09/18	EK	SW6010C
SPLP Barium	0.017	0.010	mg/L	1	04/09/18	EK	SW6010C
SPLP Cadmium	< 0.005	0.005	mg/L	1	04/09/18	EK	SW6010C
SPLP Chromium	< 0.010	0.010	mg/L	1	04/09/18	EK	SW6010C
SPLP Mercury	< 0.0005	0.0005	mg/L	1	04/10/18	RS	SW7470A
SPLP Lead	0.012	0.010	mg/L	1	04/09/18	EK	SW6010C
SPLP Selenium	< 0.020	0.020	mg/L	1	04/09/18	EK	SW6010C
SPLP Metals Digestion	Completed				04/09/18	IW/I	SW3010A
Percent Solid	85		%		04/06/18	AP	SW846-%Solid
Soil Extraction for PCB	Completed				04/09/18	IW/V	SW3545A
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Extraction of CT ETPH	Completed				04/09/18	W/VCK	SW3545A
Mercury Digestion	Completed				04/10/18	I/Q/I	SW7471B
SPLP Digestion Mercury	Completed				04/09/18	IW/I	SW1312/SW7470A
SPLP Extraction for Metals	Completed				04/06/18	I	SW1312
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-28
SB-03 (0.5-1.5')
Phoenix I.D.: CA15916

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	04/10/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/10/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	04/10/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1221	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1232	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1242	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1248	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1254	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1260	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1262	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
PCB-1268	ND	390	ug/Kg	10	04/11/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	04/11/18	AW	30 - 150 %
% TCMX	91		%	10	04/11/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	39	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	74		%	2	04/11/18	CW	30 - 150 %
% TCMX	73		%	2	04/11/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15916
Client ID: 1305180406-28
SB-03 (0.5-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromoethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	04/10/18	JLI	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	04/10/18	JLI	SW8260
Acetone	ND	280	ug/Kg	1	04/10/18	JLI	SW8260
Acrylonitrile	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Benzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromobenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromochloromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromoform	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromomethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Chlorobenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Chloroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Chloroform	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Chloromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	1	04/10/18	JLI	SW8260
Dibromomethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Ethylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
m&p-Xylene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	1	04/10/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	04/10/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Naphthalene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
o-Xylene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Styrene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Toluene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Total Xylenes	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	04/10/18	JLI	SW8260
Trichloroethene	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
Vinyl chloride	ND	5.5	ug/Kg	1	04/10/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/10/18	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	04/10/18	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	04/10/18	JLI	70 - 130 %
% Toluene-d8	94		%	1	04/10/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Chrysene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	72		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	68		%	10	04/10/18	DD	30 - 130 %
Field Extraction	Completed				04/06/18		SW5035A

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15916

Client ID: 1305180406-28
SB-03 (0.5-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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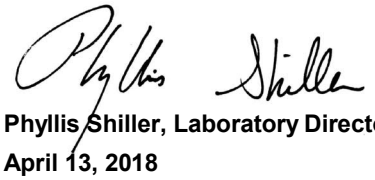

Phyllis Shiller, Laboratory Director
April 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	11:30
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15917

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-29 SB-04 (0.1-0.9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	6.74	0.78	mg/Kg	1	04/10/18	MA	SW6010C
Barium	55.9	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	16.5	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	0.47	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	40.3	0.39	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/10/18	MA	SW6010C
Percent Solid	85		%		04/06/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Mercury Digestion	Completed				04/10/18	I/Q/I	SW7471B
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B
Pesticides							
4,4' -DDD	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	39	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15917
Client ID: 1305180406-29
SB-04 (0.1-0.9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	79		%	2	04/11/18	CW	30 - 150 %
% TCMX	77		%	2	04/11/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	420	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	410	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	400	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	340	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	410	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Chrysene	470	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	790	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	400	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	230	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	720	160	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	75		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	71		%	10	04/10/18	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

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 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	12:20
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15919

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-31 MW-03 (0-0.8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	3.07	0.74	mg/Kg	1	04/10/18	MA	SW6010C
Barium	81.8	0.37	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	17.7	0.37	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	0.16	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	43.8	0.37	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	04/10/18	MA	SW6010C
Percent Solid	89		%		04/06/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Mercury Digestion	Completed				04/10/18	I/I	SW7471B
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B
Pesticides							
4,4' -DDD	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDE	14	7.3	ug/Kg	2	04/11/18	CW	SW8081B
4,4' -DDT	8.5	7.3	ug/Kg	2	04/11/18	CW	SW8081B
a-BHC	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Alachlor	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	04/11/18	CW	SW8081B
b-BHC	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	04/11/18	CW	SW8081B
d-BHC	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan I	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan II	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endosulfan sulfate	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-31
MW-03 (0-0.8')
Phoenix I.D.: CA15919

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endrin aldehyde	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Endrin ketone	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Heptachlor epoxide	ND	7.3	ug/Kg	2	04/11/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	04/11/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	04/11/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	67		%	2	04/11/18	CW	30 - 150 %
% TCMX	64		%	2	04/11/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1,1-Trichloroethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	04/10/18	JLI	SW8260
1,1,2-Trichloroethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloroethene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,1-Dichloropropene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,3-Trichloropropane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dibromoethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichlorobenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichloroethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,2-Dichloropropane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichlorobenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,3-Dichloropropane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
1,4-Dichlorobenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
2,2-Dichloropropane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
2-Chlorotoluene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	04/10/18	JLI	SW8260
2-Isopropyltoluene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
4-Chlorotoluene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	04/10/18	JLI	SW8260
Acetone	ND	220	ug/Kg	1	04/10/18	JLI	SW8260
Acrylonitrile	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Benzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromobenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromochloromethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromodichloromethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromoform	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Bromomethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Carbon Disulfide	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Carbon tetrachloride	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Chlorobenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA15919
Client ID: 1305180406-31
MW-03 (0-0.8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Chloroform	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Chloromethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	1	04/10/18	JLI	SW8260
Dibromomethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Dichlorodifluoromethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Ethylbenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Hexachlorobutadiene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Isopropylbenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
m&p-Xylene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	1	04/10/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.0	ug/Kg	1	04/10/18	JLI	SW8260
Methylene chloride	ND	9.0	ug/Kg	1	04/10/18	JLI	SW8260
Naphthalene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
n-Butylbenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
n-Propylbenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
o-Xylene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
p-Isopropyltoluene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
sec-Butylbenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Styrene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
tert-Butylbenzene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Tetrachloroethene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.0	ug/Kg	1	04/10/18	JLI	SW8260
Toluene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Total Xylenes	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.0	ug/Kg	1	04/10/18	JLI	SW8260
Trichloroethene	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorofluoromethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Trichlorotrifluoroethane	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
Vinyl chloride	ND	4.5	ug/Kg	1	04/10/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/10/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/10/18	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	04/10/18	JLI	70 - 130 %
% Toluene-d8	94		%	1	04/10/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	230	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	490	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	710	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	4400	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	5700	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	4300	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	4400	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	4700	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-31

Phoenix I.D.: CA15919

MW-03 (0-0.8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	5000	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	980	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	8300	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	240	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	5700	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	3300	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	7700	150	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	65		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	58		%	10	04/10/18	DD	30 - 130 %
Field Extraction	Completed				04/06/18		SW5035A

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 13, 2018
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

April 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	BC	04/06/18	14:05
Location Code:	F&O	Received by:	DL	04/06/18	19:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA15909
Phoenix ID: CA15921

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-33 MW-04 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Arsenic	4.80	0.82	mg/Kg	1	04/10/18	MA	SW6010C
Barium	63.1	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Cadmium	< 0.41	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Chromium	25.8	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Mercury	0.07	0.03	mg/Kg	1	04/10/18	RS	SW7471B
Lead	18.3	0.41	mg/Kg	1	04/10/18	MA	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/10/18	MA	SW6010C
Percent Solid	80		%		04/06/18	AP	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/09/18	IW/V	SW3545A
Soil Extraction SVOA PAH	Completed				04/09/18	W/CKV	SW3545A
Mercury Digestion	Completed				04/10/18	I/I	SW7471B
Total Metals Digest	Completed				04/09/18	CK/T/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
4,4' -DDE	70	8.3	ug/Kg	2	04/12/18	CW	SW8081B
4,4' -DDT	73	8.3	ug/Kg	2	04/12/18	CW	SW8081B
a-BHC	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Aldrin	ND	4.1	ug/Kg	2	04/12/18	CW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Chlordane	68	41	ug/Kg	2	04/12/18	CW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	04/12/18	CW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180406-33

Phoenix I.D.: CA15921

MW-04 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	04/12/18	CW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Heptachlor epoxide	20	8.3	ug/Kg	2	04/12/18	CW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	04/12/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	04/12/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	74		%	2	04/12/18	CW	30 - 150 %
% TCMX	70		%	2	04/12/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Acenaphthylene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Anthracene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Chrysene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluoranthene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Fluorene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Naphthalene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Phenanthrene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
Pyrene	ND	170	ug/Kg	10	04/10/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	10	04/10/18	DD	30 - 130 %
% Nitrobenzene-d5	68		%	10	04/10/18	DD	30 - 130 %
% Terphenyl-d14	63		%	10	04/10/18	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 1

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

QA/QC Report

April 13, 2018

QA/QC Data

SDG I.D.: GCA15909

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 425561 (mg/L), QC Sample No: CA15509 (CA15911, CA16916)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.004	<0.004	<0.004	NC	95.3			96.0			75 - 125	20
Barium	BRL	0.010	<0.010	<0.010	NC	97.8			96.2			75 - 125	20
Cadmium	BRL	0.005	<0.005	<0.005	NC	97.4			98.4			75 - 125	20
Chromium	BRL	0.010	<0.010	<0.010	NC	94.7			95.1			75 - 125	20
Lead	BRL	0.010	<0.010	<0.010	NC	96.5			96.8			75 - 125	20
Selenium	BRL	0.020	<0.020	<0.020	NC	98.4			98.9			75 - 125	20
Silver	BRL	0.010	<0.010	<0.010	NC	93.0			92.9			75 - 125	20
QA/QC Batch 425559 (mg/L), QC Sample No: CA15513 (CA15911, CA16916)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	85.9			89.1			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 425703 (mg/kg), QC Sample No: CA15612 (CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	89.1	87.5	1.8	108			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 425626 (mg/kg), QC Sample No: CA15911 (CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921)													
ICP Metals - Soil													
Arsenic	BRL	0.66	2.58	2.26	NC	88.9			83.7			75 - 125	30
Barium	BRL	0.33	8.52	9.06	6.10	77.4			95.6			75 - 125	30
Cadmium	BRL	0.33	<0.39	<0.40	NC	84.7			84.4			75 - 125	30
Chromium	BRL	0.33	7.93	7.69	3.10	89.6			93.0			75 - 125	30
Lead	BRL	0.33	<0.39	1.84	NC	88.3			89.7			75 - 125	30
Selenium	BRL	1.3	<1.5	<1.6	NC	88.2			90.9			75 - 125	30
Silver	BRL	0.33	<0.39	<0.40	NC	82.2			89.7			75 - 125	30
QA/QC Batch 425704 (mg/kg), QC Sample No: CA16508 (CA15919, CA15921)													
Mercury - Soil	BRL	0.02	<0.03	0.44	NC	96.8	77.4	22.3	103			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%.													

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QA/QC Report

April 13, 2018

QA/QC Data

SDG I.D.: GCA15909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 425894 (ug/kg), QC Sample No: CA15410 (CA15912 (50X))										
Volatiles - Soil										
1,1,2,2-Tetrachloroethane	ND	3.0	94	96	2.1	87	88	1.1	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	94	94	0.0	84	87	3.5	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	89	92	3.3	83	84	1.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	92	91	1.1	83	85	2.4	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	90	87	3.4	86	86	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	90	90	0.0	82	84	2.4	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	90	88	2.2	84	85	1.2	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	90	88	2.2	83	85	2.4	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	88	88	0.0	80	82	2.5	70 - 130	30
2-Chlorotoluene	ND	5.0	89	87	2.3	82	85	3.6	70 - 130	30
2-Isopropyltoluene	ND	5.0	104	103	1.0	96	99	3.1	70 - 130	30
4-Chlorotoluene	ND	5.0	89	87	2.3	81	82	1.2	70 - 130	30
Bromobenzene	ND	5.0	92	91	1.1	84	86	2.4	70 - 130	30
Hexachlorobutadiene	ND	5.0	95	92	3.2	89	92	3.3	70 - 130	30
Isopropylbenzene	ND	1.0	89	88	1.1	83	84	1.2	70 - 130	30
Naphthalene	ND	5.0	98	98	0.0	86	86	0.0	70 - 130	30
n-Butylbenzene	ND	1.0	93	90	3.3	84	86	2.4	70 - 130	30
n-Propylbenzene	ND	1.0	90	86	4.5	83	83	0.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	90	89	1.1	84	85	1.2	70 - 130	30
sec-Butylbenzene	ND	1.0	94	92	2.2	87	88	1.1	70 - 130	30
tert-Butylbenzene	ND	1.0	90	87	3.4	82	84	2.4	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	124	128	3.2	105	109	3.7	70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	99	101	2.0	101	101	0.0	70 - 130	30
% Bromofluorobenzene	94	%	98	97	1.0	98	98	0.0	70 - 130	30
Comment:										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										
QA/QC Batch 425751 (ug/kg), QC Sample No: CA15911 (CA15909 (50X) , CA15910, CA15911, CA15912, CA15914, CA15915, CA15916, CA15919)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	5.0	89	89	0.0	89	86	3.4	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	86	86	0.0	83	86	3.6	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	91	88	3.4	91	89	2.2	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	87	86	1.2	86	85	1.2	70 - 130	30
1,1-Dichloroethane	ND	5.0	88	88	0.0	87	87	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	84	81	3.6	81	79	2.5	70 - 130	30
1,1-Dichloropropene	ND	5.0	89	88	1.1	92	87	5.6	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	88	87	1.1	83	82	1.2	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	87	87	0.0	86	85	1.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	83	82	1.2	79	78	1.3	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	85	85	0.0	86	82	4.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	91	86	5.6	84	84	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCA15909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromoethane	ND	5.0	90	86	4.5	87	85	2.3	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	85	84	1.2	83	82	1.2	70 - 130	30	
1,2-Dichloroethane	ND	5.0	88	88	0.0	86	83	3.6	70 - 130	30	
1,2-Dichloropropane	ND	5.0	92	90	2.2	91	85	6.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	85	85	0.0	87	83	4.7	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	83	83	0.0	84	82	2.4	70 - 130	30	
1,3-Dichloropropane	ND	5.0	87	86	1.2	87	84	3.5	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	82	82	0.0	81	79	2.5	70 - 130	30	
2,2-Dichloropropane	ND	5.0	95	93	2.1	87	92	5.6	70 - 130	30	
2-Chlorotoluene	ND	5.0	84	85	1.2	86	84	2.4	70 - 130	30	
2-Hexanone	ND	25	101	98	3.0	94	95	1.1	70 - 130	30	
2-Isopropyltoluene	ND	5.0	100	101	1.0	103	98	5.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	84	83	1.2	85	81	4.8	70 - 130	30	
4-Methyl-2-pentanone	ND	25	108	105	2.8	102	101	1.0	70 - 130	30	
Acetone	ND	10	60	63	4.9	62	67	7.8	70 - 130	30	l,m
Acrylonitrile	ND	5.0	106	102	3.8	97	101	4.0	70 - 130	30	
Benzene	ND	1.0	90	89	1.1	91	87	4.5	70 - 130	30	
Bromobenzene	ND	5.0	89	89	0.0	88	86	2.3	70 - 130	30	
Bromochloromethane	ND	5.0	84	83	1.2	85	83	2.4	70 - 130	30	
Bromodichloromethane	ND	5.0	87	86	1.2	84	82	2.4	70 - 130	30	
Bromoform	ND	5.0	81	82	1.2	77	78	1.3	70 - 130	30	
Bromomethane	ND	5.0	113	114	0.9	118	115	2.6	70 - 130	30	
Carbon Disulfide	ND	5.0	99	97	2.0	97	97	0.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	86	85	1.2	83	82	1.2	70 - 130	30	
Chlorobenzene	ND	5.0	85	85	0.0	86	84	2.4	70 - 130	30	
Chloroethane	ND	5.0	119	116	2.6	119	119	0.0	70 - 130	30	
Chloroform	ND	5.0	81	79	2.5	79	81	2.5	70 - 130	30	
Chloromethane	ND	5.0	123	123	0.0	122	118	3.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	88	90	2.2	89	88	1.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	90	89	1.1	87	85	2.3	70 - 130	30	
Dibromochloromethane	ND	3.0	88	87	1.1	84	85	1.2	70 - 130	30	
Dibromomethane	ND	5.0	88	89	1.1	84	83	1.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	139	136	2.2	135	131	3.0	70 - 130	30	l,m
Ethylbenzene	ND	1.0	87	86	1.2	89	86	3.4	70 - 130	30	
Hexachlorobutadiene	ND	5.0	89	88	1.1	90	86	4.5	70 - 130	30	
Isopropylbenzene	ND	1.0	85	86	1.2	89	84	5.8	70 - 130	30	
m&p-Xylene	ND	2.0	83	83	0.0	85	83	2.4	70 - 130	30	
Methyl ethyl ketone	ND	5.0	99	90	9.5	88	87	1.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	109	107	1.9	103	104	1.0	70 - 130	30	
Methylene chloride	ND	5.0	84	80	4.9	77	79	2.6	70 - 130	30	
Naphthalene	ND	5.0	94	92	2.2	86	85	1.2	70 - 130	30	
n-Butylbenzene	ND	1.0	84	83	1.2	86	83	3.6	70 - 130	30	
n-Propylbenzene	ND	1.0	86	84	2.4	86	83	3.6	70 - 130	30	
o-Xylene	ND	2.0	85	86	1.2	86	84	2.4	70 - 130	30	
p-Isopropyltoluene	ND	1.0	86	85	1.2	88	83	5.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	89	89	0.0	92	88	4.4	70 - 130	30	
Styrene	ND	5.0	85	84	1.2	84	82	2.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	86	86	0.0	89	84	5.8	70 - 130	30	
Tetrachloroethene	ND	5.0	86	84	2.4	88	84	4.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	92	90	2.2	86	87	1.2	70 - 130	30	
Toluene	ND	1.0	88	88	0.0	88	86	2.3	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	92	89	3.3	92	89	3.3	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	88	87	1.1	84	83	1.2	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,4-dichloro-2-butene	ND	5.0	121	116	4.2	109	109	0.0	70 - 130	30	
Trichloroethene	ND	5.0	87	88	1.1	89	86	3.4	70 - 130	30	
Trichlorofluoromethane	ND	5.0	113	109	3.6	111	111	0.0	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	99	98	1.0	97	95	2.1	70 - 130	30	
Vinyl chloride	ND	5.0	116	114	1.7	116	114	1.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	101	101	0.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	98	%	100	100	0.0	101	101	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	101	100	1.0	97	98	1.0	70 - 130	30	
% Toluene-d8	95	%	101	100	1.0	101	99	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%.

QA/QC Batch 425590 (ug/kg), QC Sample No: CA16169 10X (CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	130	62	63	1.6	63	49	25.0	30 - 130	30	
Acenaphthene	ND	130	77	78	1.3	75	57	27.3	30 - 130	30	
Acenaphthylene	ND	130	69	70	1.4	68	52	26.7	30 - 130	30	
Anthracene	ND	130	78	80	2.5	75	58	25.6	30 - 130	30	
Benz(a)anthracene	ND	130	74	75	1.3	71	54	27.2	30 - 130	30	
Benzo(a)pyrene	ND	130	85	85	0.0	81	59	31.4	30 - 130	30	r
Benzo(b)fluoranthene	ND	130	79	80	1.3	79	55	35.8	30 - 130	30	r
Benzo(ghi)perylene	ND	130	88	88	0.0	83	59	33.8	30 - 130	30	r
Benzo(k)fluoranthene	ND	130	91	90	1.1	87	64	30.5	30 - 130	30	
Chrysene	ND	130	78	77	1.3	74	55	29.5	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	92	94	2.2	87	63	32.0	30 - 130	30	r
Fluoranthene	ND	130	73	73	0.0	70	53	27.6	30 - 130	30	
Fluorene	ND	130	75	75	0.0	72	55	26.8	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	130	85	87	2.3	80	58	31.9	30 - 130	30	r
Naphthalene	ND	130	64	65	1.6	65	51	24.1	30 - 130	30	
Phenanthrene	ND	130	75	75	0.0	72	55	26.8	30 - 130	30	
Pyrene	ND	130	77	77	0.0	75	57	27.3	30 - 130	30	
% 2-Fluorobiphenyl	74	%	71	71	0.0	71	53	29.0	30 - 130	30	
% Nitrobenzene-d5	86	%	81	89	9.4	87	69	23.1	30 - 130	30	
% Terphenyl-d14	77	%	75	76	1.3	74	56	27.7	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 425592 (ug/Kg), QC Sample No: CA16299 2X (CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921)

Pesticides - Soil

4,4' -DDD	ND	1.7	96	107	10.8	67	59	12.7	40 - 140	30	
4,4' -DDE	ND	1.7	90	96	6.5	65	58	11.4	40 - 140	30	
4,4' -DDT	ND	1.7	96	105	9.0	70	58	18.8	40 - 140	30	
a-BHC	ND	1.0	94	97	3.1	70	66	5.9	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	88	92	4.4	64	58	9.8	40 - 140	30	
b-BHC	ND	1.0	98	112	13.3	77	68	12.4	40 - 140	30	
Chlordane	ND	33	90	96	6.5	67	61	9.4	40 - 140	30	
d-BHC	ND	3.3	100	105	4.9	71	63	11.9	40 - 140	30	
Dieldrin	ND	1.0	89	94	5.5	63	57	10.0	40 - 140	30	
Endosulfan I	ND	3.3	98	104	5.9	72	66	8.7	40 - 140	30	
Endosulfan II	ND	3.3	103	109	5.7	77	66	15.4	40 - 140	30	

QA/QC Data

SDG I.D.: GCA15909

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endosulfan sulfate	ND	3.3	108	110	1.8	76	66	14.1	40 - 140	30
Endrin	ND	3.3	94	101	7.2	71	63	11.9	40 - 140	30
Endrin aldehyde	ND	3.3	106	113	6.4	56	51	9.3	40 - 140	30
Endrin ketone	ND	3.3	94	101	7.2	65	58	11.4	40 - 140	30
g-BHC	ND	1.0	93	98	5.2	67	61	9.4	40 - 140	30
Heptachlor	ND	3.3	93	98	5.2	70	63	10.5	40 - 140	30
Heptachlor epoxide	ND	3.3	91	99	8.4	66	62	6.3	40 - 140	30
Methoxychlor	ND	3.3	103	107	3.8	76	66	14.1	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	97	%	100	104	3.9	76	69	9.7	30 - 150	30
% TCMX	81	%	82	85	3.6	64	61	4.8	30 - 150	30

Comment:

Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

QA/QC Batch 425591 (ug/Kg), QC Sample No: CA16299 2X (CA15911, CA15912, CA15914, CA15915, CA15916)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	33	91	96	5.3	85	81	4.8	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	100	104	3.9	91	88	3.4	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	108	%	110	110	0.0	97	92	5.3	30 - 150	30
% TCMX (Surrogate Rec)	92	%	89	94	5.5	85	78	8.6	30 - 150	30

QA/QC Batch 425599 (mg/Kg), QC Sample No: CA16307 (CA15911, CA15912, CA15914, CA15915, CA15916)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum H.C. (C9-C36)	ND	50	97	92	5.3	108	108	0.0	60 - 120	30
% n-Pentacosane	68	%	74	69	7.0	82	82	0.0	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

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
April 13, 2018

Friday, April 13, 2018

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GCA15909 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CA15919	$8100SIMSM	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	5700	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4300	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	5700	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4400	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	5700	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Chrysene	CT / RSR GB (mg/kg) / APS Organics	5000	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	4400	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4700	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4300	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	5700	150	1000	1000	ug/Kg
CA15919	$8100SIMSM	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	4400	150	1000	1000	ug/Kg
CA15921	$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / APS Organics	68	41	66	66	ug/Kg
CA15921	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	73	8.3	20	20	ug/Kg
CA15921	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	70	8.3	20	20	ug/Kg
CA15921	$PEST_SMR	Chlordane	CT / RSR GB (mg/kg) / Pesticides/TPH	68	41	66	66	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this 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 - RUSSO ***Project Number:***

Laboratory Sample ID(s): CA15909-CA15917, CA15919, CA15921 ***Sampling Date(s):*** 4/6/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8082, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **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 acheived? 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:** Friday, April 13, 2018

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 13, 2018

SDG I.D.: GCA15909

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? Yes.

Instrument:

AU-FID1 04/10/18-1 Jeff Bucko, Chemist 04/10/18

CA15912

The initial calibration (ETPH302I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 04/10/18-1 Jeff Bucko, Chemist 04/10/18

CA15914

The initial calibration (ETPH307I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 04/09/18-1 Jeff Bucko, Chemist 04/09/18

CA15915, CA15916

The initial calibration (ETPH406I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 04/09/18-1 Jeff Bucko, Chemist 04/09/18

CA15911

The initial calibration (ETPH329I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 425599 (CA16307)

CA15911, CA15912, CA15914, CA15915, CA15916

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 04/10/18 08:04 Rick Schweitzer, Chemist 04/10/18

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SDG I.D.: GCA15909

Mercury Narration

CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
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 425559 (CA15513)

CA15911, CA15916

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%.

Batch 425703 (CA15612)

CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 425704 (CA16508)

CA15919, CA15921

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 04/09/18 07:19 Mike Arsenault, Chemist 04/09/18

CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921

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.

BLUE 04/09/18 07:02 Emily Kolominskaya, Chemist 04/09/18

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SDG I.D.: GCA15909

ICP Metals Narration

CA15911, CA15916

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 425561 (CA15509)

CA15911, CA15916

All LCS recoveries were within 75 - 125 with the following exceptions: None.

QC (Site Specific):

Batch 425626 (CA15911)

CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD24 04/10/18-1 Adam Werner, Chemist 04/10/18

CA15911, CA15912, CA15914, CA15915, CA15916

The initial calibration (PC329AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC329BI) 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 425591 (CA16299)

CA15911, CA15912, CA15914, CA15915, CA15916

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

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RCP Certification Report

April 13, 2018

SDG I.D.: GCA15909

PEST Narration

AU-ECD4 04/11/18-2 Carol Wohlmuth, Chemist 04/11/18

CA15914, CA15915

The initial calibration (PS402AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS402BI) 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 04/11/18-2 Carol Wohlmuth, Chemist 04/11/18

CA15911, CA15912, CA15913, CA15916, CA15917, CA15919, CA15921

The initial calibration (PS404AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS404BI) 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 425592 (CA16299)

CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921

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.
Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS, LCSD, MS and MSD.

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM06 04/09/18-1 Damien Drobinski, Chemist 04/09/18

CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921

Initial Calibration Verification (CHEM06/BNSIM_0405):
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 (CHEM06/0409_04-BNSIM_0405):
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):

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RCP Certification Report

April 13, 2018

SDG I.D.: GCA15909

SVOASIM Narration

Batch 425590 (CA16169)

CA15911, CA15912, CA15913, CA15914, CA15915, CA15916, CA15917, CA15919, CA15921

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
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 425751 (Samples: CA15909, CA15910, CA15911, CA15912, CA15914, CA15915, CA15916, CA15919): -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone)

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. (Dichlorodifluoromethane)

Instrument:

CHEM14 04/09/18-2 Jane Li, Chemist 04/09/18

CA15909, CA15910, CA15911, CA15912, CA15914, CA15915, CA15916, CA15919

Initial Calibration Verification (CHEM14/VT-0408):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 23% (20%), trans-1,4-dichloro-2-butene 21% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM14/0409_39-VT-0408):
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.

CHEM14 04/10/18-1 Raman Makol, Chemist 04/10/18

CA15912

Initial Calibration Verification (CHEM14/VT-0408):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: trans-1,4-dichloro-2-butene 21% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM14/0410_03-VT-0408):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.

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NY # 11301

RCP Certification Report

April 13, 2018

SDG I.D.: GCA15909

VOA Narration

The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 425894 (CA15410)

CA15912

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%.

QC (Site Specific):

Batch 425751 (CA15911)

CA15909, CA15910, CA15911, CA15912, CA15914, CA15915, CA15916, CA15919

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(60%), Dichlorodifluoromethane(139%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(63%), Dichlorodifluoromethane(136%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: Acetone(62%), Dichlorodifluoromethane(135%)
All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(67%), Dichlorodifluoromethane(131%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 3.2C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

3.20 w CTDP

CHAIN-OF-CUSTODY RECORD 39111

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
RIVERFRONT RECAPTURE - RUSSO FAMILY PROPERTY	HARTFORD + WINDSOR	20170277.A10	PHOENIX

REPORT TO: BRIANNA CHURCH (F+O)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 4/6/18

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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	PCBs	RCRA8 METALS	PESTICIDES	SPLP METALS	Soil VOA Vial, ☒ Methanol	Soil VOA Vial, ☐ Water ☐ $Na(SO_4)_2$	Glass Soil Container (4) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) mL ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					130518040 6 -21	X	4/6/18	0750	X							1											15909
02					-22	X		0755	X								2										15910
03					-23	S		0830	X	X	X	X	X	X	X	1	2	5									15911
04					-24			0855	X	X	X	X	X	X		1	2	4									15912
05					-25			0945			X		X	X				2									15913
06					-26			1005	X	X	X	X	X	X		1	2	4									15914
07					-27			1015	X	X	X	X	X	X		1	2	4									15915
08					-28			1115	X	X	X	X	X	X	X	1	2	5									15916
09					-29			1130			X		X	X				2									15917
10					-30			1140										2							15918		HOLD

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	4/6/18	19:13
2				
3				
4				

Charge Exceptions: ☒ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 2 Blanks (Item Nos: 01, 02)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
RES DEC, GBPMC
Additional Comments:

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

3.30 WWTP

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 39110

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
RIVERFRONT RECAPTURE - RUSSO FAMILY PROPERTY	HARTFORD + WINDSOR	20170277.A10	PHOENIX

REPORT TO: BRIANNA CHURCH (LFO)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 4/6/18

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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PAHs	RCRA Metals	Pesticides	VOCs	HOLD	Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☒ water	Glass Soil Container (4) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (___) ml, ☐ As is ☐ HCl	Plastic - As is, ☐ 250 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ 500 ml	Plastic - NaOH, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
11					130518040 6 - 31	S	4/6/18	1220	X	X	X	X							1	2	3					15919
12					-32	↓	↓	1230	'					X					1	2	3			15920		HOLD
13					-33			1405	X	X	X										2					15921
14					-34	↓	↓	1410						X							2			15922		HOLD

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	4/6/18	19:13
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.
RESDEC; GBPMC
Additional Comments:

Tuesday, April 17, 2018

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

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Sample ID#s: CA19662 - CA19667

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

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

Analysis Report

April 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	BC	04/12/18	8:50
Location Code:	F&O	Received by:	DL	04/12/18	18:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA19662
Phoenix ID: CA19662

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-33 TB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19662

Client ID: 1305180412-33
TB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	04/15/18	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/15/18	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/15/18	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/15/18	MH	70 - 130 %
% Bromofluorobenzene	101		%	1	04/15/18	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	04/15/18	MH	70 - 130 %

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-33

Phoenix I.D.: CA19662

TB

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	103		%	1	04/15/18	MH	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	BC	04/12/18	12:27
Location Code:	F&O	Received by:	DL	04/12/18	18:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA19662
Phoenix ID: CA19663

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-34 MW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/14/18	EK	SW6010C
Barium	0.014	0.002	mg/L	1	04/14/18	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	04/16/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	04/14/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	04/14/18	EK	SW6010C
Mercury Digestion	Completed				04/16/18	I/I	SW7470A
Extraction for Herbicide	Completed				04/13/18	R/D	SW8151A
Extraction for Pest (2 Liter)	Completed				04/12/18		SW3510C
Semi-Volatile Extraction	Completed				04/13/18	P/D	SW3520C
Total Metals Digestion	Completed				04/13/18	AG	
Chlorinated Herbicides							
2,4,5-T	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4-D	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
2,4-DB	ND	50	ug/L	10	04/15/18	CW	SW8151A
Dalapon	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dicamba	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dichloroprop	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
Dinoseb	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	69		%	10	04/15/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	0.050	ug/L	1	04/14/18	CW	SW8081B

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19663

Client ID: 1305180412-34
MW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	ND	0.050	ug/L	1	04/14/18	CW	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	04/14/18	CW	SW8081B
a-BHC	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Alachlor	ND	0.075	ug/L	1	04/14/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	04/14/18	CW	SW8081B
Chlordane	ND	0.30	ug/L	1	04/14/18	CW	SW8081B
d-BHC	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
Endosulfan I	ND	0.050	ug/L	1	04/14/18	CW	SW8081B
Endosulfan II	ND	0.050	ug/L	1	04/14/18	CW	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	04/14/18	CW	SW8081B
Endrin	ND	0.050	ug/L	1	04/14/18	CW	SW8081B
Endrin Aldehyde	ND	0.050	ug/L	1	04/14/18	CW	SW8081B
Endrin ketone	ND	0.050	ug/L	1	04/14/18	CW	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Heptachlor	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	04/14/18	CW	SW8081B
Toxaphene	ND	1.0	ug/L	1	04/14/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	92		%	1	04/14/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	80		%	1	04/14/18	CW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19663

Client ID: 1305180412-34
MW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Acetone	ND	25	ug/L	1	04/15/18	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/15/18	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/15/18	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/15/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	04/15/18	MH	70 - 130 %

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	95		%	1	04/15/18	MH	70 - 130 %
% Toluene-d8	103		%	1	04/15/18	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/16/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	04/16/18	DD	30 - 130 %
% Nitrobenzene-d5	75		%	1	04/16/18	DD	30 - 130 %
% Terphenyl-d14	74		%	1	04/16/18	DD	30 - 130 %

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

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	BC	04/12/18	13:58
Location Code:	F&O	Received by:	DL	04/12/18	18:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA19662
Phoenix ID: CA19664

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-35 MW-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/14/18	EK	SW6010C
Barium	0.075	0.002	mg/L	1	04/14/18	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	04/16/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	04/14/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	04/14/18	EK	SW6010C
Mercury Digestion	Completed				04/16/18	I/I	SW7470A
Extraction for Herbicide	Completed				04/13/18	R/D	SW8151A
Extraction for Pest (2 Liter)	Completed				04/12/18		SW3510C
Semi-Volatile Extraction	Completed				04/13/18	P/D	SW3520C
Total Metals Digestion	Completed				04/13/18	AG	
Chlorinated Herbicides							
2,4,5-T	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4-D	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
2,4-DB	ND	50	ug/L	10	04/15/18	CW	SW8151A
Dalapon	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dicamba	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dichloroprop	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
Dinoseb	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	79		%	10	04/15/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	0.051	ug/L	1	04/14/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19664

Client ID: 1305180412-35
MW-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	ND	0.051	ug/L	1	04/14/18	CW	SW8081B
4,4' -DDT	ND	0.051	ug/L	1	04/14/18	CW	SW8081B
a-BHC	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Alachlor	ND	0.077	ug/L	1	04/14/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	04/14/18	CW	SW8081B
Chlordane	ND	0.31	ug/L	1	04/14/18	CW	SW8081B
d-BHC	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
Endosulfan I	ND	0.051	ug/L	1	04/14/18	CW	SW8081B
Endosulfan II	ND	0.051	ug/L	1	04/14/18	CW	SW8081B
Endosulfan Sulfate	ND	0.051	ug/L	1	04/14/18	CW	SW8081B
Endrin	ND	0.051	ug/L	1	04/14/18	CW	SW8081B
Endrin Aldehyde	ND	0.051	ug/L	1	04/14/18	CW	SW8081B
Endrin ketone	ND	0.051	ug/L	1	04/14/18	CW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Heptachlor	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	04/14/18	CW	SW8081B
Toxaphene	ND	1.0	ug/L	1	04/14/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	78		%	1	04/14/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	77		%	1	04/14/18	CW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19664

Client ID: 1305180412-35
MW-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Acetone	ND	25	ug/L	1	04/15/18	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/15/18	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/15/18	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/15/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	04/15/18	MH	70 - 130 %

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-35

Phoenix I.D.: CA19664

MW-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	1	04/15/18	MH	70 - 130 %
% Toluene-d8	104		%	1	04/15/18	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/16/18	DD	SW8270D (SIM)
Phenanthrene	0.05	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	04/16/18	DD	30 - 130 %
% Nitrobenzene-d5	77		%	1	04/16/18	DD	30 - 130 %
% Terphenyl-d14	84		%	1	04/16/18	DD	30 - 130 %

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

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	BC	04/12/18	14:05
Location Code:	F&O	Received by:	DL	04/12/18	18:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA19662
Phoenix ID: CA19665

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-36 MW-01 - Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/14/18	EK	SW6010C
Barium	0.073	0.002	mg/L	1	04/14/18	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	04/16/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	04/14/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	04/14/18	EK	SW6010C
Mercury Digestion	Completed				04/16/18	I/I	SW7470A
Extraction for Herbicide	Completed				04/13/18	R/D	SW8151A
Extraction for Pest (2 Liter)	Completed				04/12/18		SW3510C
Semi-Volatile Extraction	Completed				04/13/18	P/D	SW3520C
Total Metals Digestion	Completed				04/13/18	AG	
Chlorinated Herbicides							
2,4,5-T	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4-D	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
2,4-DB	ND	50	ug/L	10	04/15/18	CW	SW8151A
Dalapon	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dicamba	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dichloroprop	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
Dinoseb	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	73		%	10	04/15/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	0.052	ug/L	1	04/14/18	CW	SW8081B

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19665
Client ID: 1305180412-36
MW-01 - Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	ND	0.052	ug/L	1	04/14/18	CW	SW8081B
4,4' -DDT	ND	0.052	ug/L	1	04/14/18	CW	SW8081B
a-BHC	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Alachlor	ND	0.079	ug/L	1	04/14/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	04/14/18	CW	SW8081B
Chlordane	ND	0.31	ug/L	1	04/14/18	CW	SW8081B
d-BHC	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
Endosulfan I	ND	0.052	ug/L	1	04/14/18	CW	SW8081B
Endosulfan II	ND	0.052	ug/L	1	04/14/18	CW	SW8081B
Endosulfan Sulfate	ND	0.052	ug/L	1	04/14/18	CW	SW8081B
Endrin	ND	0.052	ug/L	1	04/14/18	CW	SW8081B
Endrin Aldehyde	ND	0.052	ug/L	1	04/14/18	CW	SW8081B
Endrin ketone	ND	0.052	ug/L	1	04/14/18	CW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Heptachlor	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	04/14/18	CW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	04/14/18	CW	SW8081B
Toxaphene	ND	1.0	ug/L	1	04/14/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	96		%	1	04/14/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	82		%	1	04/14/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19665

Client ID: 1305180412-36
MW-01 - Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Acetone	ND	25	ug/L	1	04/15/18	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/15/18	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/15/18	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/15/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	04/15/18	MH	70 - 130 %

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19665

Client ID: 1305180412-36
MW-01 - Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	04/15/18	MH	70 - 130 %
% Toluene-d8	103		%	1	04/15/18	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/16/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	04/16/18	DD	30 - 130 %
% Nitrobenzene-d5	74		%	1	04/16/18	DD	30 - 130 %
% Terphenyl-d14	84		%	1	04/16/18	DD	30 - 130 %

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

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	BC	04/12/18	15:38
Location Code:	F&O	Received by:	DL	04/12/18	18:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA19662
Phoenix ID: CA19666

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-37

MW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/14/18	EK	SW6010C
Barium	0.077	0.002	mg/L	1	04/14/18	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	04/16/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	04/14/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	04/14/18	EK	SW6010C
Mercury Digestion	Completed				04/16/18	I/I	SW7470A
Extraction for Herbicide	Completed				04/13/18	R/D	SW8151A
Extraction for Pest (2 Liter)	Completed				04/12/18		SW3510C
Semi-Volatile Extraction	Completed				04/13/18	P/D	SW3520C
Total Metals Digestion	Completed				04/13/18	AG	
Chlorinated Herbicides							
2,4,5-T	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4-D	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
2,4-DB	ND	50	ug/L	10	04/15/18	CW	SW8151A
Dalapon	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dicamba	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dichloroprop	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
Dinoseb	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	79		%	10	04/15/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	0.049	ug/L	1	04/14/18	CW	SW8081B

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19666

Client ID: 1305180412-37
MW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	ND	0.049	ug/L	1	04/14/18	CW	SW8081B
4,4' -DDT	ND	0.049	ug/L	1	04/14/18	CW	SW8081B
a-BHC	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Alachlor	ND	0.074	ug/L	1	04/14/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	04/14/18	CW	SW8081B
Chlordane	ND	0.29	ug/L	1	04/14/18	CW	SW8081B
d-BHC	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
Endosulfan I	ND	0.049	ug/L	1	04/14/18	CW	SW8081B
Endosulfan II	ND	0.049	ug/L	1	04/14/18	CW	SW8081B
Endosulfan Sulfate	ND	0.049	ug/L	1	04/14/18	CW	SW8081B
Endrin	ND	0.049	ug/L	1	04/14/18	CW	SW8081B
Endrin Aldehyde	ND	0.049	ug/L	1	04/14/18	CW	SW8081B
Endrin ketone	ND	0.049	ug/L	1	04/14/18	CW	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Heptachlor	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	04/14/18	CW	SW8081B
Methoxychlor	ND	0.098	ug/L	1	04/14/18	CW	SW8081B
Toxaphene	ND	0.98	ug/L	1	04/14/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	93		%	1	04/14/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	77		%	1	04/14/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19666

Client ID: 1305180412-37
MW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Acetone	ND	25	ug/L	1	04/15/18	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/15/18	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/15/18	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/15/18	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	04/15/18	MH	70 - 130 %

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-37 MW-02

Phoenix I.D.: CA19666

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	95		%	1	04/15/18	MH	70 - 130 %
% Toluene-d8	103		%	1	04/15/18	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluoranthene	0.08	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/16/18	DD	SW8270D (SIM)
Phenanthrene	0.14	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Pyrene	0.07	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	04/16/18	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	04/16/18	DD	30 - 130 %
% Terphenyl-d14	81		%	1	04/16/18	DD	30 - 130 %

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

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	BC	04/12/18	17:06
Location Code:	F&O	Received by:	DL	04/12/18	18:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A10				

Laboratory Data

SDG ID: GCA19662
Phoenix ID: CA19667

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Client ID: 1305180412-38 MW-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/14/18	EK	SW6010C
Barium	0.112	0.002	mg/L	1	04/14/18	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/14/18	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	04/16/18	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	04/14/18	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	04/14/18	EK	SW6010C
Mercury Digestion	Completed				04/16/18	I/I	SW7470A
Extraction for Herbicide	Completed				04/13/18	R/D	SW8151A
Extraction for Pest (2 Liter)	Completed				04/12/18		SW3510C
Semi-Volatile Extraction	Completed				04/13/18	P/D	SW3520C
Total Metals Digestion	Completed				04/13/18	AG	
Chlorinated Herbicides							
2,4,5-T	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
2,4-D	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
2,4-DB	ND	50	ug/L	10	04/15/18	CW	SW8151A
Dalapon	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dicamba	ND	2.5	ug/L	10	04/15/18	CW	SW8151A
Dichloroprop	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
Dinoseb	ND	5.0	ug/L	10	04/15/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	75		%	10	04/15/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	0.053	ug/L	1	04/14/18	CW	SW8081B

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19667

Client ID: 1305180412-38
MW-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDE	ND	0.053	ug/L	1	04/14/18	CW	SW8081B
4,4' -DDT	ND	0.053	ug/L	1	04/14/18	CW	SW8081B
a-BHC	ND	0.027	ug/L	1	04/14/18	CW	SW8081B
Alachlor	ND	0.080	ug/L	1	04/14/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	04/14/18	CW	SW8081B
Chlordane	ND	0.32	ug/L	1	04/14/18	CW	SW8081B
d-BHC	ND	0.027	ug/L	1	04/14/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	04/14/18	CW	SW8081B
Endosulfan I	ND	0.053	ug/L	1	04/14/18	CW	SW8081B
Endosulfan II	ND	0.053	ug/L	1	04/14/18	CW	SW8081B
Endosulfan Sulfate	ND	0.053	ug/L	1	04/14/18	CW	SW8081B
Endrin	ND	0.053	ug/L	1	04/14/18	CW	SW8081B
Endrin Aldehyde	ND	0.053	ug/L	1	04/14/18	CW	SW8081B
Endrin ketone	ND	0.053	ug/L	1	04/14/18	CW	SW8081B
g-BHC (Lindane)	ND	0.027	ug/L	1	04/14/18	CW	SW8081B
Heptachlor	ND	0.027	ug/L	1	04/14/18	CW	SW8081B
Heptachlor epoxide	ND	0.027	ug/L	1	04/14/18	CW	SW8081B
Methoxychlor	ND	0.11	ug/L	1	04/14/18	CW	SW8081B
Toxaphene	ND	1.1	ug/L	1	04/14/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	91		%	1	04/14/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	78		%	1	04/14/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/15/18	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19667

Client ID: 1305180412-38
MW-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Acetone	ND	25	ug/L	1	04/15/18	MH	SW8260
Acrylonitrile	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/15/18	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/15/18	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/15/18	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/15/18	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/15/18	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/15/18	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/15/18	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/15/18	MH	70 - 130 %
% Bromofluorobenzene	101		%	1	04/15/18	MH	70 - 130 %

Ver 1

Project ID: RIVERFRONT RECAPTURE - RUSSO FAMILY PROP
Phoenix I.D.: CA19667
Client ID: 1305180412-38
MW-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	94		%	1	04/15/18	MH	70 - 130 %
% Toluene-d8	103		%	1	04/15/18	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthene	0.05	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Anthracene	0.07	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/16/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	04/16/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	04/16/18	DD	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/16/18	DD	30 - 130 %
% Terphenyl-d14	81		%	1	04/16/18	DD	30 - 130 %

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

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
April 17, 2018
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

April 17, 2018

QA/QC Data

SDG I.D.: GCA19662

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 426407 (mg/L), QC Sample No: CA19658 (CA19663, CA19664, CA19665, CA19666, CA19667)													
ICP Metals - Aqueous													
Arsenic	BRL	0.004	<0.004	<0.004	NC	95.6			97.1			75 - 125	20
Barium	BRL	0.002	0.011	0.011	0	103			103			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	97.8			97.6			75 - 125	20
Chromium	BRL	0.001	0.004	0.004	NC	97.6			97.7			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	97.8			97.5			75 - 125	20
Selenium	BRL	0.010	0.028	0.027	NC	95.6			96.1			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	98.9			100			75 - 125	20
QA/QC Batch 426269 (mg/L), QC Sample No: CA19664 (CA19663, CA19664, CA19665, CA19666, CA19667)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	112			101			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%.

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

April 17, 2018

QA/QC Data

SDG I.D.: GCA19662

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 426220 (ug/L), QC Sample No: CA18846 (CA19663, CA19664, CA19665, CA19666, CA19667)										
Pesticides - Ground Water										
4,4' -DDD	ND	0.003	110	104	5.6				40 - 140	20
4,4' -DDE	ND	0.003	95	93	2.1				40 - 140	20
4,4' -DDT	ND	0.003	82	81	1.2				40 - 140	20
a-BHC	ND	0.002	59	59	0.0				40 - 140	20
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20
Aldrin	ND	0.002	51	52	1.9				40 - 140	20
b-BHC	ND	0.002	85	84	1.2				40 - 140	20
Chlordane	ND	0.050	64	63	1.6				40 - 140	20
d-BHC	ND	0.005	41	40	2.5				40 - 140	20
Dieldrin	ND	0.002	62	60	3.3				40 - 140	20
Endosulfan I	ND	0.005	60	60	0.0				40 - 140	20
Endosulfan II	ND	0.005	72	72	0.0				40 - 140	20
Endosulfan sulfate	ND	0.005	71	70	1.4				40 - 140	20
Endrin	ND	0.005	62	59	5.0				40 - 140	20
Endrin aldehyde	ND	0.010	84	83	1.2				40 - 140	20
Endrin ketone	ND	0.005	75	74	1.3				40 - 140	20
g-BHC	ND	0.002	62	61	1.6				40 - 140	20
Heptachlor	ND	0.005	57	60	5.1				40 - 140	20
Heptachlor epoxide	ND	0.005	65	63	3.1				40 - 140	20
Methoxychlor	ND	0.005	71	69	2.9				40 - 140	20
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20
% DCBP	101	%	91	94	3.2				30 - 150	20
% TCMX	79	%	89	86	3.4				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 426374 (ug/L), QC Sample No: CA19104 (CA19663, CA19664, CA19665, CA19666, CA19667)										
Semivolatiles by SIM - Ground Water										
2-Methylnaphthalene	ND	0.05				68	65	4.5	30 - 130	20
Acenaphthene	ND	0.05				67	65	3.0	30 - 130	20
Acenaphthylene	ND	0.04				66	66	0.0	30 - 130	20
Anthracene	ND	0.02				61	62	1.6	30 - 130	20
Benz(a)anthracene	ND	0.02				60	62	3.3	30 - 130	20
Benzo(a)pyrene	ND	0.02				48	49	2.1	30 - 130	20
Benzo(b)fluoranthene	ND	0.02				55	51	7.5	30 - 130	20
Benzo(ghi)perylene	ND	0.02				37	40	7.8	30 - 130	20
Benzo(k)fluoranthene	ND	0.02				46	50	8.3	30 - 130	20
Chrysene	ND	0.02				51	51	0.0	30 - 130	20
Dibenz(a,h)anthracene	ND	0.01				43	52	18.9	30 - 130	20
Fluoranthene	ND	0.04				67	62	7.8	30 - 130	20
Fluorene	ND	0.05				66	68	3.0	30 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Indeno(1,2,3-cd)pyrene	ND	0.02				44	48	8.7	30 - 130	20
Naphthalene	ND	0.05				57	54	5.4	30 - 130	20
Phenanthrene	ND	0.05				63	61	3.2	30 - 130	20
Pyrene	ND	0.02				69	66	4.4	30 - 130	20
% 2-Fluorobiphenyl	81	%				64	60	6.5	30 - 130	20
% Nitrobenzene-d5	79	%				61	56	8.5	30 - 130	20
% Terphenyl-d14	92	%				74	73	1.4	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 426603 (ug/L), QC Sample No: CA19662 (CA19662, CA19663, CA19664, CA19665, CA19666, CA19667)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	110	107	2.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	117	113	3.5				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	108	107	0.9				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	108	104	3.8				70 - 130	30
1,1-Dichloroethane	ND	1.0	116	113	2.6				70 - 130	30
1,1-Dichloroethene	ND	1.0	124	119	4.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	114	111	2.7				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	102	98	4.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	118	110	7.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	103	102	1.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	112	109	2.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	108	109	0.9				70 - 130	30
1,2-Dibromoethane	ND	1.0	107	104	2.8				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	106	104	1.9				70 - 130	30
1,2-Dichloroethane	ND	1.0	118	113	4.3				70 - 130	30
1,2-Dichloropropane	ND	1.0	111	108	2.7				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	112	110	1.8				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	106	104	1.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	106	104	1.9				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	106	104	1.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	125	120	4.1				70 - 130	30
2-Chlorotoluene	ND	1.0	106	104	1.9				70 - 130	30
2-Hexanone	ND	5.0	109	105	3.7				70 - 130	30
2-Isopropyltoluene	ND	1.0	110	108	1.8				70 - 130	30
4-Chlorotoluene	ND	1.0	106	104	1.9				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	118	116	1.7				70 - 130	30
Acetone	ND	5.0	104	97	7.0				70 - 130	30
Acrylonitrile	ND	5.0	112	109	2.7				70 - 130	30
Benzene	ND	0.70	111	108	2.7				70 - 130	30
Bromobenzene	ND	1.0	105	101	3.9				70 - 130	30
Bromochloromethane	ND	1.0	112	109	2.7				70 - 130	30
Bromodichloromethane	ND	0.50	113	109	3.6				70 - 130	30
Bromoform	ND	1.0	108	105	2.8				70 - 130	30
Bromomethane	ND	1.0	109	106	2.8				70 - 130	30
Carbon Disulfide	ND	1.0	134	126	6.2				70 - 130	30
Carbon tetrachloride	ND	1.0	114	110	3.6				70 - 130	30
Chlorobenzene	ND	1.0	109	106	2.8				70 - 130	30
Chloroethane	ND	1.0	131	126	3.9				70 - 130	30
Chloroform	ND	1.0	115	111	3.5				70 - 130	30
Chloromethane	ND	1.0	118	111	6.1				70 - 130	30

QA/QC Data

SDG I.D.: GCA19662

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,2-Dichloroethene	ND	1.0	114	110	3.6				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	110	107	2.8				70 - 130	30	
Dibromochloromethane	ND	0.50	111	107	3.7				70 - 130	30	
Dibromomethane	ND	1.0	111	107	3.7				70 - 130	30	
Dichlorodifluoromethane	ND	1.0	115	110	4.4				70 - 130	30	
Ethylbenzene	ND	1.0	112	108	3.6				70 - 130	30	
Hexachlorobutadiene	ND	0.40	102	99	3.0				70 - 130	30	
Isopropylbenzene	ND	1.0	107	105	1.9				70 - 130	30	
m&p-Xylene	ND	1.0	116	113	2.6				70 - 130	30	
Methyl ethyl ketone	ND	5.0	128	122	4.8				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	109	106	2.8				70 - 130	30	
Methylene chloride	ND	1.0	116	113	2.6				70 - 130	30	
Naphthalene	ND	1.0	105	101	3.9				70 - 130	30	
n-Butylbenzene	ND	1.0	115	112	2.6				70 - 130	30	
n-Propylbenzene	ND	1.0	109	106	2.8				70 - 130	30	
o-Xylene	ND	1.0	109	106	2.8				70 - 130	30	
p-Isopropyltoluene	ND	1.0	114	111	2.7				70 - 130	30	
sec-Butylbenzene	ND	1.0	114	112	1.8				70 - 130	30	
Styrene	ND	1.0	110	107	2.8				70 - 130	30	
tert-Butylbenzene	ND	1.0	109	107	1.9				70 - 130	30	
Tetrachloroethene	ND	1.0	107	105	1.9				70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	118	112	5.2				70 - 130	30	
Toluene	ND	1.0	112	109	2.7				70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	118	113	4.3				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	108	105	2.8				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	103	102	1.0				70 - 130	30	
Trichloroethene	ND	1.0	113	109	3.6				70 - 130	30	
Trichlorofluoromethane	ND	1.0	115	111	3.5				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	113	108	4.5				70 - 130	30	
Vinyl chloride	ND	1.0	117	112	4.4				70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	100	99	1.0				70 - 130	30	
% Bromofluorobenzene	100	%	99	100	1.0				70 - 130	30	
% Dibromofluoromethane	96	%	98	97	1.0				70 - 130	30	
% Toluene-d8	102	%	101	102	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%.

QA/QC Batch 426272 (ug/L), QC Sample No: CA19663 10X (CA19663, CA19664, CA19665, CA19666, CA19667)

Chlorinated Herbicides - Ground Water

2,4,5-T	ND	2.5	67	75	11.3				40 - 140	20	
2,4,5-TP (Silvex)	ND	2.5	90	83	8.1				40 - 140	20	
2,4-D	ND	5.0	90	79	13.0				40 - 140	20	
2,4-DB	ND	50	43	45	4.5				40 - 140	20	
Dalapon	ND	2.5	69	91	27.5				40 - 140	20	r
Dicamba	ND	2.5	89	91	2.2				40 - 140	20	
Dichloroprop	ND	5.0	106	85	22.0				40 - 140	20	r
Dinoseb	ND	5.0	83	81	2.4				40 - 140	20	
% DCAA (Surrogate Rec)	73	%	82	80	2.5				30 - 150	20	

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.: GCA19662

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD 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
April 17, 2018

Tuesday, April 17, 2018

Sample Criteria Exceedances Report

GCA19662 - FO

Criteria: CT: GBM, RC

State: CT

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 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 - RUSSO ***Project Number:***

Laboratory Sample ID(s): CA19662-CA19667 ***Sampling Date(s):*** 4/12/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 8151, 8260, 8270

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	***VPH and EPH methods only:*** **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 acheived? See Sections: Herbicide 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: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Tuesday, April 17, 2018

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 17, 2018

SDG I.D.: GCA19662

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.

Herbicide Narration

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

QC Batch 426272 (Samples: CA19663, CA19664, CA19665, CA19666, CA19667): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Dalapon, Dichloroprop)

Instrument:

AU-ECD12 04/14/18-1 Carol Wohlmuth, Chemist 04/14/18

CA19663, CA19664, CA19665, CA19666, CA19667

The initial calibration (HRB404AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRB404BI) 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: CA19663, CA19664, CA19665
Preceding CC 414B027 - None.
Succeeding CC 414B039 - 2,4,5-T (11) -17%L (15%), 2,4-DB (12) -17%L (15%)
Samples: CA19666, CA19667
Preceding CC 414B039 - 2,4,5-T (11) -17%L (15%), 2,4-DB (12) -17%L (15%)
Succeeding CC 414B051 - None.

QC (Batch Specific):

Batch 426272 (CA19663)

CA19663, CA19664, CA19665, CA19666, CA19667

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: Dalapon(27.5%), Dichloroprop(22.0%)

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 04/16/18 08:14 Rick Schweitzer, Chemist 04/16/18

CA19663, CA19664, CA19665, CA19666, CA19667

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
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.

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SDG I.D.: GCA19662

Mercury Narration

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 426269 (CA19664)

CA19663, CA19664, CA19665, CA19666, CA19667

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 04/14/18 01:13 Emily Kolominskaya, Chemist 04/14/18

CA19663, CA19664, CA19665, CA19666, CA19667

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 426407 (CA19658)

CA19663, CA19664, CA19665, CA19666, CA19667

All LCS recoveries were within 75 - 125 with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD7 04/13/18-2 Carol Wohlmuth, Chemist 04/13/18

CA19663, CA19664, CA19665, CA19666, CA19667

The initial calibration (PS413AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS413BI) 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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RCP Certification Report

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SDG I.D.: GCA19662

PEST Narration

The continuing calibration %D for the compound list was less than 20% except for the following compounds:
Samples: CA19663, CA19664, CA19665, CA19666, CA19667
Preceding CC 413A036 - Endrin aldehyde 25%H (20%)
Succeeding CC 413A048 - Endrin aldehyde 22%H (20%)

QC (Batch Specific):

Batch 426220 (CA18846)

CA19663, CA19664, CA19665, CA19666, CA19667

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? Yes.

Instrument:

CHEM04 04/16/18-1 Damien Drobinski, Chemist 04/16/18

CA19663, CA19664, CA19665, CA19666, CA19667

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

Initial Calibration Verification (CHEM04/SIM_0405):
90% of target compounds met criteria.
The following compounds had %RSDs >20%: Chrysene 23% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0416_02-SIM_0405):
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.

VOA Narration

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RCP Certification Report

April 17, 2018

SDG I.D.: GCA19662

VOA Narration

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

QC Batch 426603 (Samples: CA19662, CA19663, CA19664, CA19665, CA19666, CA19667): -----

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. (Carbon Disulfide, Chloroethane)

Instrument:

CHEM02 04/15/18-1 Michael Hahn, Chemist 04/15/18

CA19662, CA19663, CA19664, CA19665, CA19666, CA19667

Initial Calibration Verification (CHEM02/VT-P0412):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 23% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.029 (0.05), 2-Hexanone 0.053 (0.1), 4-Methyl-2-pentanone 0.067 (0.1), Acetone 0.040 (0.1), Acrylonitrile 0.044 (0.05), Bromoform 0.078 (0.1), Methyl ethyl ketone 0.051 (0.1), Tetrahydrofuran (THF) 0.036 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/0415P03-VT-P0412):
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: 1,1,2,2-Tetrachloroethane 0.292 (0.3), 1,2-Dibromo-3-chloropropane 0.029 (0.05), Acrylonitrile 0.046 (0.05), Bromoform 0.080 (0.1), Tetrahydrofuran (THF) 0.039 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 426603 (CA19662)

CA19662, CA19663, CA19664, CA19665, CA19666, CA19667

All LCS recoveries were within 70 - 130 with the following exceptions: Carbon Disulfide(134%), Chloroethane(131%)
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
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%.

Temperature Narration

The samples were received at 3.7C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

3.TW01D

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☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 39117

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
RIVERFRONT RECAPTURE RUSSO FAMILY PROPERTY	HARTFORD & WINDSOR, CT	20170277.A10	PHOENIX

REPORT TO: BRIANNA CHURCH (FTO)
INVOICE TO:
P.O. NO.:
Sampler's Signature: [signature] Date: 4/12/18

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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	PAHs	RCRA 8 Metals	Herbicides	Pesticides (8081)	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz	Other:	Other:	Water VOA Vial, ☐ As is X HCl	Glass Amber (1000) ml, X As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ~~Filtered~~ ~~Unfiltered~~	Plastic - NaOH, 250 ml	Comments
01					130518041 2-33	X	4/12/18	0850	X										2						19662
02					-34	MW		1227	X	X	X	X	X						3	4			1			19663
03					-35			1358	X	X	X	X	X						3	4			1			19664
04					-36			1405	X	X	X	X	X						3	4			1			19665
05					-37			1538	X	X	X	X	X						3	4			1			19666
06					-38	↓	↓	1706	X	X	X	X	X						3	4			1			19667

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	TFDUMM	4/12/18	1816
2				
3				
4				

Charge Exceptions: X CT Tax Exempt X QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos: 01)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
RES DEC, GB PMC
Additional Comments:

Thursday, November 08, 2018

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

Project ID: RUSSO FAMILY PROPERTIES
Sample ID#s: CB80581 - CB80595

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

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

Analysis Report

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	9:10
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80581

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	3.13	0.78	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	79.4	0.39	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	0.57	0.39	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	17.1	0.39	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	0.04	0.03	mg/Kg	1	10/25/18	RS	SW7471B
Lead	26.9	0.39	mg/Kg	1	10/24/18	MGH	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	85		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/24/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	570	290	mg/Kg	5	10/24/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	5	10/24/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
4,4' -DDE	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
4,4' -DDT	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Alachlor	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	10/31/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Chlordane	ND	38	ug/Kg	2	10/31/18	CW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Endrin	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/31/18	CW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	10/31/18	CW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	10/31/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/31/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	89		%	2	10/31/18	CW	30 - 150 %
% TCMX	80		%	2	10/31/18	CW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/24/18	JLI	SW8260
Acetone	ND	250	ug/Kg	1	10/24/18	JLI	SW8260
Acrylonitrile	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Benzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Bromobenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Bromodichloromethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Bromoform	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Bromomethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Chlorobenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Chloroethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Chloroform	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Chloromethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	10/24/18	JLI	SW8260
Dibromomethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Ethylbenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Isopropylbenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
m&p-Xylene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	10/24/18	JLI	SW8260
Methylene chloride	ND	9.9	ug/Kg	1	10/24/18	JLI	SW8260
Naphthalene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
n-Butylbenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
n-Propylbenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
o-Xylene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Styrene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	10/24/18	JLI	SW8260
Toluene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Total Xylenes	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	1	10/24/18	JLI	SW8260
Trichloroethene	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	9.9	ug/Kg	1	10/24/18	JLI	SW8260
Vinyl chloride	ND	4.9	ug/Kg	1	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	10/24/18	JLI	70 - 130 %
% Toluene-d8	93		%	1	10/24/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	10/25/18	WB	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/25/18	WB	SW8270D

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-01

Phoenix I.D.: CB80581

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	270	ug/Kg	1	10/25/18	WB	SW8270D
Anthracene	280	270	ug/Kg	1	10/25/18	WB	SW8270D
Benz(a)anthracene	800	270	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(a)pyrene	820	270	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(b)fluoranthene	710	270	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(ghi)perylene	550	270	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(k)fluoranthene	640	270	ug/Kg	1	10/25/18	WB	SW8270D
Chrysene	850	270	ug/Kg	1	10/25/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/25/18	WB	SW8270D
Fluoranthene	1600	270	ug/Kg	1	10/25/18	WB	SW8270D
Fluorene	ND	270	ug/Kg	1	10/25/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	560	270	ug/Kg	1	10/25/18	WB	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/25/18	WB	SW8270D
Phenanthrene	910	270	ug/Kg	1	10/25/18	WB	SW8270D
Pyrene	1600	270	ug/Kg	1	10/25/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	10/25/18	WB	30 - 130 %
% Nitrobenzene-d5	73		%	1	10/25/18	WB	30 - 130 %
% Terphenyl-d14	70		%	1	10/25/18	WB	30 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	9:58
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80582

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	2.40	0.73	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	32.3	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	13.9	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/25/18	RS	SW7471B
Lead	2.92	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	83		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/24/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	10/24/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	10/24/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDE	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDT	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Chlordane	ND	39	ug/Kg	2	10/30/18	CW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endrin	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	10/30/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/30/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	67		%	2	10/30/18	CW	30 - 150 %
% TCMX	58		%	2	10/30/18	CW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	10/24/18	JLI	SW8260
Acetone	ND	270	ug/Kg	1	10/24/18	JLI	SW8260
Acrylonitrile	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Benzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromobenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromodichloromethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromoform	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromomethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Chlorobenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloroethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloroform	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloromethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	1	10/24/18	JLI	SW8260
Dibromomethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Ethylbenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Isopropylbenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
m&p-Xylene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	1	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Naphthalene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
n-Butylbenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
n-Propylbenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
o-Xylene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
sec-Butylbenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Styrene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Toluene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Total Xylenes	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Trichloroethene	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Vinyl chloride	ND	5.3	ug/Kg	1	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	10/24/18	JLI	70 - 130 %
% Toluene-d8	96		%	1	10/24/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-02

Phoenix I.D.: CB80582

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Anthracene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Chrysene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Fluoranthene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Fluorene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Phenanthrene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
Pyrene	ND	280	ug/Kg	1	10/24/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	10/24/18	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	10/24/18	WB	30 - 130 %
% Terphenyl-d14	71		%	1	10/24/18	WB	30 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	10:33
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80583

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	1.49	0.87	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	21.3	0.43	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	< 0.43	0.43	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	10.4	0.43	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	< 0.04	0.04	mg/Kg	1	10/25/18	RS	SW7471B
Lead	2.13	0.43	mg/Kg	1	10/24/18	MGH	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	76		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/24/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	10/24/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	10/24/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDE	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDT	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
a-BHC	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Alachlor	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Chlordane	ND	43	ug/Kg	2	10/30/18	CW	SW8081B
d-BHC	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan I	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan II	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan sulfate	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Endrin	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Endrin aldehyde	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Endrin ketone	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	8.7	ug/Kg	2	10/30/18	CW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	10/30/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/30/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	62		%	2	10/30/18	CW	30 - 150 %
% TCMX	60		%	2	10/30/18	CW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichloropropane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
2-Hexanone	ND	31	ug/Kg	1	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	1	10/24/18	JLI	SW8260
Acetone	ND	310	ug/Kg	1	10/24/18	JLI	SW8260
Acrylonitrile	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Benzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Bromobenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-03

Phoenix I.D.: CB80583

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Bromoform	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Bromomethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Chlorobenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Chloroethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Chloroform	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Chloromethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Dibromochloromethane	ND	3.7	ug/Kg	1	10/24/18	JLI	SW8260
Dibromomethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Ethylbenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Isopropylbenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
m&p-Xylene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	1	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	10/24/18	JLI	SW8260
Methylene chloride	ND	12	ug/Kg	1	10/24/18	JLI	SW8260
Naphthalene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
o-Xylene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
sec-Butylbenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Styrene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	10/24/18	JLI	SW8260
Toluene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Total Xylenes	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	10/24/18	JLI	SW8260
Trichloroethene	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	12	ug/Kg	1	10/24/18	JLI	SW8260
Vinyl chloride	ND	6.1	ug/Kg	1	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	10/24/18	JLI	70 - 130 %
% Toluene-d8	94		%	1	10/24/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Acenaphthene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-03

Phoenix I.D.: CB80583

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Anthracene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Chrysene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Fluoranthene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Fluorene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Naphthalene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Phenanthrene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
Pyrene	ND	300	ug/Kg	1	10/24/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	10/24/18	WB	30 - 130 %
% Nitrobenzene-d5	72		%	1	10/24/18	WB	30 - 130 %
% Terphenyl-d14	78		%	1	10/24/18	WB	30 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	10:52
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80584

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	1.88	0.67	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	16.3	0.34	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	< 0.34	0.34	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	10.2	0.34	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/25/18	RS	SW7471B
Lead	2.32	0.34	mg/Kg	1	10/24/18	MGH	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	94		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/24/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	10/24/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	10/24/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDE	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDT	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Alachlor	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Aldrin	ND	3.5	ug/Kg	2	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Chlordane	ND	35	ug/Kg	2	10/30/18	CW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Endrin	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	10/30/18	CW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	10/30/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/30/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	73		%	2	10/30/18	CW	30 - 150 %
% TCMX	62		%	2	10/30/18	CW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	10/24/18	JLI	SW8260
Acetone	ND	210	ug/Kg	1	10/24/18	JLI	SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Benzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromobenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromochloromethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromoform	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromomethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloroethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloroform	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloromethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	10/24/18	JLI	SW8260
Dibromomethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Isopropylbenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
m&p-Xylene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.5	ug/Kg	1	10/24/18	JLI	SW8260
Methylene chloride	ND	8.5	ug/Kg	1	10/24/18	JLI	SW8260
Naphthalene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
n-Butylbenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
n-Propylbenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
o-Xylene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
sec-Butylbenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Styrene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Tetrachloroethene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.5	ug/Kg	1	10/24/18	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.5	ug/Kg	1	10/24/18	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	8.5	ug/Kg	1	10/24/18	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	10/24/18	JLI	70 - 130 %
% Toluene-d8	95		%	1	10/24/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-04

Phoenix I.D.: CB80584

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Chrysene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Fluoranthene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Phenanthrene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Pyrene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	10/24/18	WB	30 - 130 %
% Nitrobenzene-d5	70		%	1	10/24/18	WB	30 - 130 %
% Terphenyl-d14	70		%	1	10/24/18	WB	30 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

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

Comments:

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

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Phyllis Shiller, Laboratory Director
November 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	11:45
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80585

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.75	0.63	mg/Kg	1	10/24/18	MGH	SW6010C
Lead	23.0	0.31	mg/Kg	1	10/24/18	MGH	SW6010C
TCLP Lead	< 0.10	0.10	mg/L	1	10/24/18	MGH	SW6010C
TCLP Metals Digestion	Completed				10/24/18	Q/EV	SW3010A
Percent Solid	97		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	C/D	SW8151A
TCLP Extraction for Metals	Completed				10/23/18	Q	SW1311
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	85	ug/Kg	10	10/25/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	85	ug/Kg	10	10/25/18	CW	SW8151A
2,4-D	ND	170	ug/Kg	10	10/25/18	CW	SW8151A
2,4-DB	ND	1700	ug/Kg	10	10/25/18	CW	SW8151A
Dalapon	ND	85	ug/Kg	10	10/25/18	CW	SW8151A
Dicamba	ND	85	ug/Kg	10	10/25/18	CW	SW8151A
Dichloroprop	ND	170	ug/Kg	10	10/25/18	CW	SW8151A
Dinoseb	ND	170	ug/Kg	10	10/25/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	32		%	10	10/25/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
4,4' -DDE	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
4,4' -DDT	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
a-BHC	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Alachlor	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-05

Phoenix I.D.: CB80585

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aldrin	ND	3.3	ug/Kg	2	10/27/18	CW	SW8081B
b-BHC	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Chlordane	ND	33	ug/Kg	2	10/27/18	CW	SW8081B
d-BHC	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Dieldrin	ND	3.3	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan I	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan II	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan sulfate	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Endrin	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Endrin aldehyde	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Endrin ketone	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
g-BHC	ND	1.3	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor epoxide	ND	6.7	ug/Kg	2	10/27/18	CW	SW8081B
Methoxychlor	ND	33	ug/Kg	2	10/27/18	CW	SW8081B
Toxaphene	ND	130	ug/Kg	2	10/27/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	85		%	2	10/27/18	CW	30 - 150 %
% TCMX	86		%	2	10/27/18	CW	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	12:30
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80586

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.67	0.69	mg/Kg	1	10/24/18	MGH	SW6010C
Lead	14.1	0.35	mg/Kg	1	10/24/18	MGH	SW6010C
TCLP Lead	< 0.10	0.10	mg/L	1	10/24/18	MGH	SW6010C
TCLP Metals Digestion	Completed				10/24/18	Q/EV	SW3010A
Percent Solid	90		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	C/D	SW8151A
TCLP Extraction for Metals	Completed				10/23/18	Q	SW1311
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	92	ug/Kg	10	10/25/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	10/25/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	10/25/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	10/25/18	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	10/25/18	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	10/25/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	10/25/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	10/25/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	40		%	10	10/25/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDE	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDT	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
a-BHC	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-06

Phoenix I.D.: CB80586

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aldrin	ND	3.6	ug/Kg	2	10/30/18	CW	SW8081B
b-BHC	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	10/30/18	CW	SW8081B
d-BHC	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Endrin	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	10/30/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	10/30/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/30/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	77		%	2	10/30/18	CW	30 - 150 %
% TCMX	75		%	2	10/30/18	CW	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	13:05
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80587

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	7.02	0.75	mg/Kg	1	10/24/18	MGH	SW6010C
Lead	115	0.37	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	94		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	C/D	SW8151A
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	87	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	87	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	170	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	1700	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	87	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	87	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	170	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	170	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	47		%	10	10/26/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	6.8	2.1	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDE	3.5	2.1	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDT	4.1	2.1	ug/Kg	2	10/30/18	CW	SW8081B
a-BHC	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Alachlor	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Aldrin	ND	3.5	ug/Kg	2	10/30/18	CW	SW8081B
b-BHC	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Chlordane	ND	35	ug/Kg	2	10/30/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-07

Phoenix I.D.: CB80587

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Endrin	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	10/30/18	CW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	10/30/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/30/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	74		%	2	10/30/18	CW	30 - 150 %
% TCMX	66		%	2	10/30/18	CW	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	13:25
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80588

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.48	0.48	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	120	0.95	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	288	0.48	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	2.77	0.48	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	28.8	0.48	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	0.27	0.08	mg/Kg	1	10/25/18	RS	SW7471B
Lead	1430	4.8	mg/Kg	10	10/25/18	CPP	SW6010C
Selenium	< 1.9	1.9	mg/Kg	1	10/24/18	MGH	SW6010C
SPLP Arsenic	0.195	0.004	mg/L	1	11/07/18	CPP	SW6010C
SPLP Lead	0.130	0.010	mg/L	1	11/07/18	CPP	SW6010C
TCLP Lead	0.55	0.10	mg/L	1	11/08/18	EK	SW6010C
SPLP Metals Digestion	Completed				11/07/18	Q/Q	SW3010A
TCLP Metals Digestion	Completed				11/07/18	Q/Q	SW3010A
Percent Solid	75		%		10/23/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/23/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/23/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/24/18	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
SPLP Extraction for Metals	Completed				11/06/18	Q	SW1312
TCLP Extraction for Metals	Completed				11/06/18	Q	SW1311
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	330	mg/Kg	5	10/24/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	5	10/24/18	JRB	50 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-08

Phoenix I.D.: CB80588

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polychlorinated Biphenyls							
PCB-1016	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1221	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1232	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1242	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1248	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1254	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1260	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1262	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1268	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	85		%	10	10/24/18	AW	30 - 150 %
% TCMX	81		%	10	10/24/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
4,4' -DDE	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
4,4' -DDT	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
a-BHC	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Alachlor	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Aldrin	ND	4.4	ug/Kg	2	10/25/18	CW	SW8081B
b-BHC	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Chlordane	ND	44	ug/Kg	2	10/25/18	CW	SW8081B
d-BHC	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Dieldrin	ND	4.4	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan I	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan II	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan sulfate	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endrin	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endrin aldehyde	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endrin ketone	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	10/25/18	CW	SW8081B
Heptachlor	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Heptachlor epoxide	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Methoxychlor	ND	44	ug/Kg	2	10/25/18	CW	SW8081B
Toxaphene	ND	180	ug/Kg	2	10/25/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	66		%	2	10/25/18	CW	30 - 150 %
% TCMX	51		%	2	10/25/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.1	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-08

Phoenix I.D.: CB80588

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
2-Hexanone	ND	34	ug/Kg	1	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	34	ug/Kg	1	10/24/18	JLI	SW8260
Acetone	ND	340	ug/Kg	1	10/24/18	JLI	SW8260
Acrylonitrile	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Benzene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Bromobenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
Bromochloromethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Bromodichloromethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Bromoform	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Bromomethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Carbon Disulfide	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Chlorobenzene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Chloroethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Chloroform	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Chloromethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Dibromochloromethane	ND	4.1	ug/Kg	1	10/24/18	JLI	SW8260
Dibromomethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Ethylbenzene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
Isopropylbenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
m&p-Xylene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	41	ug/Kg	1	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	10/24/18	JLI	SW8260
Methylene chloride	ND	14	ug/Kg	1	10/24/18	JLI	SW8260
Naphthalene	320	220	ug/Kg	50	10/24/18	JLI	SW8260
n-Butylbenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
n-Propylbenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
o-Xylene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
Styrene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	550	ug/Kg	50	10/24/18	JLI	SW8260
Tetrachloroethene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	10/24/18	JLI	SW8260
Toluene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Total Xylenes	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	1100	ug/Kg	50	10/24/18	JLI	SW8260
Trichloroethene	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	14	ug/Kg	1	10/24/18	JLI	SW8260
Vinyl chloride	ND	6.9	ug/Kg	1	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	98		%	50	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	10/24/18	JLI	70 - 130 %
% Toluene-d8	100		%	1	10/24/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	1000	450	ug/Kg	1	10/25/18	WB	SW8270D
Acenaphthene	860	450	ug/Kg	1	10/25/18	WB	SW8270D
Acenaphthylene	1300	450	ug/Kg	1	10/25/18	WB	SW8270D
Anthracene	1800	450	ug/Kg	1	10/25/18	WB	SW8270D
Benz(a)anthracene	3700	450	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(a)pyrene	3000	450	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(b)fluoranthene	2500	450	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(ghi)perylene	1900	450	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(k)fluoranthene	2200	450	ug/Kg	1	10/25/18	WB	SW8270D
Chrysene	4000	450	ug/Kg	1	10/25/18	WB	SW8270D
Dibenz(a,h)anthracene	540	450	ug/Kg	1	10/25/18	WB	SW8270D
Fluoranthene	8700	450	ug/Kg	1	10/25/18	WB	SW8270D
Fluorene	2300	450	ug/Kg	1	10/25/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1900	450	ug/Kg	1	10/25/18	WB	SW8270D
Naphthalene	1100	450	ug/Kg	1	10/25/18	WB	SW8270D
Phenanthrene	10000	450	ug/Kg	1	10/25/18	WB	SW8270D
Pyrene	8500	450	ug/Kg	1	10/25/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	10/25/18	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	10/25/18	WB	30 - 130 %
% Terphenyl-d14	72		%	1	10/25/18	WB	30 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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.

SPLP Non-Volatile Extraction:
Sample weight was < 100 grams (the minimum requirement of the method to insure homogeneity).

TCLP Non-Volatile Extraction:
Sample weight was < 100 grams (the minimum requirement of the method to insure homogeneity).

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	14:18
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80589

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.80	0.66	mg/Kg	1	10/24/18	MGH	SW6010C
Lead	77.3	0.33	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	94		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	C/D	SW8151A
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	87	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	87	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	170	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	1700	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	87	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	87	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	170	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	170	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	39		%	10	10/26/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
4,4' -DDE	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
4,4' -DDT	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
a-BHC	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Alachlor	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Aldrin	ND	3.5	ug/Kg	2	10/27/18	CW	SW8081B
b-BHC	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Chlordane	ND	35	ug/Kg	2	10/27/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-09

Phoenix I.D.: CB80589

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Dieldrin	ND	3.5	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan I	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan II	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan sulfate	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Endrin	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Endrin aldehyde	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Endrin ketone	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor epoxide	ND	7.0	ug/Kg	2	10/27/18	CW	SW8081B
Methoxychlor	ND	35	ug/Kg	2	10/27/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/27/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	81		%	2	10/27/18	CW	30 - 150 %
% TCMX	85		%	2	10/27/18	CW	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
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Analysis Report

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	14:20
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80590

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	8.47	0.85	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	120	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	0.79	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	22.9	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	0.57	0.08	mg/Kg	1	10/25/18	RS	SW7471B
Lead	1360	4.2	mg/Kg	10	10/25/18	CPP	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	10/24/18	MGH	SW6010C
SPLP Lead	0.019	0.010	mg/L	1	11/07/18	CPP	SW6010C
TCLP Lead	0.15	0.10	mg/L	1	11/08/18	EK	SW6010C
SPLP Metals Digestion	Completed				11/07/18	Q/Q	SW3010A
TCLP Metals Digestion	Completed				11/07/18	Q/Q	SW3010A
Percent Solid	83		%		10/23/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/23/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/23/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
SPLP Extraction for Metals	Completed				11/06/18	Q	SW1312
TCLP Extraction for Metals	Completed				11/06/18	Q	SW1311
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	10/24/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	10/24/18	JRB	50 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-10

Phoenix I.D.: CB80590

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polychlorinated Biphenyls							
PCB-1016	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1221	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1232	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1242	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1248	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1254	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1260	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1262	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1268	ND	400	ug/Kg	10	10/24/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	51		%	10	10/24/18	AW	30 - 150 %
% TCMX	52		%	10	10/24/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	34	8.0	ug/Kg	2	10/25/18	CW	SW8081B
4,4' -DDE	36	8.0	ug/Kg	2	10/25/18	CW	SW8081B
4,4' -DDT	13	8.0	ug/Kg	2	10/25/18	CW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	10/25/18	CW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Chlordane	ND	40	ug/Kg	2	10/25/18	CW	SW8081B
d-BHC	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Endrin	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/25/18	CW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Heptachlor epoxide	ND	8.0	ug/Kg	2	10/25/18	CW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/25/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/25/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	49		%	2	10/25/18	CW	30 - 150 %
% TCMX	60		%	2	10/25/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-10

Phoenix I.D.: CB80590

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichloropropane	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	10/24/18	JLI	SW8260
Acetone	ND	280	ug/Kg	1	10/24/18	JLI	SW8260
Acrylonitrile	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Benzene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Bromobenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
Bromochloromethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Bromoform	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Bromomethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Chlorobenzene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Chloroethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Chloroform	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Chloromethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	1	10/24/18	JLI	SW8260
Dibromomethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Ethylbenzene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
Isopropylbenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
m&p-Xylene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	1	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Naphthalene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
n-Butylbenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
n-Propylbenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
o-Xylene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
Styrene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Toluene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Total Xylenes	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	1000	ug/Kg	50	10/24/18	JLI	SW8260
Trichloroethene	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	11	ug/Kg	1	10/24/18	JLI	SW8260
Vinyl chloride	ND	5.7	ug/Kg	1	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	97		%	50	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	10/24/18	JLI	70 - 130 %
% Toluene-d8	93		%	1	10/24/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Anthracene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Chrysene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Fluoranthene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Fluorene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Phenanthrene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Pyrene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	42		%	1	10/26/18	AW	30 - 130 %
% Nitrobenzene-d5	42		%	1	10/26/18	AW	30 - 130 %
% Terphenyl-d14	42		%	1	10/26/18	AW	30 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

TCLP Non-Volatile Extraction:
Sample weight was < 100 grams (the minimum requirement of the method to insure homogeneity).

SPLP Non-Volatile Extraction:
Sample weight was < 100 grams (the minimum requirement of the method to insure homogeneity).

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 08, 2018
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

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	14:50
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80591

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	< 0.71	0.71	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	13.7	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	5.61	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/25/18	RS	SW7471B
Lead	3.06	0.36	mg/Kg	1	10/24/18	MGH	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	96		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/24/18	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	10/24/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	1	10/24/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDE	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDT	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
a-BHC	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Alachlor	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Aldrin	ND	3.4	ug/Kg	2	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Chlordane	ND	34	ug/Kg	2	10/30/18	CW	SW8081B
d-BHC	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Dieldrin	ND	3.4	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan I	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan II	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan sulfate	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Endrin	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Endrin aldehyde	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Endrin ketone	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
g-BHC	ND	1.3	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	6.7	ug/Kg	2	10/30/18	CW	SW8081B
Methoxychlor	ND	34	ug/Kg	2	10/30/18	CW	SW8081B
Toxaphene	ND	130	ug/Kg	2	10/30/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	76		%	2	10/30/18	CW	30 - 150 %
% TCMX	67		%	2	10/30/18	CW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Acenaphthene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Anthracene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Chrysene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Fluoranthene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Fluorene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Naphthalene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Phenanthrene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
Pyrene	ND	240	ug/Kg	1	10/25/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	10/25/18	WB	30 - 130 %
% Nitrobenzene-d5	72		%	1	10/25/18	WB	30 - 130 %
% Terphenyl-d14	67		%	1	10/25/18	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
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Analysis Report

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	14:57
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80592

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	2.17	0.71	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	9.94	0.35	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	7.05	0.35	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/25/18	RS	SW7471B
Lead	2.39	0.35	mg/Kg	1	10/24/18	MGH	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	92		%		10/23/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/24/18	BJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	10/24/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	10/24/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
4,4' -DDE	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
4,4' -DDT	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
a-BHC	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Alachlor	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	10/25/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	10/25/18	CW	SW8081B
d-BHC	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan I	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan II	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan sulfate	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Endrin	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Endrin aldehyde	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Endrin ketone	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/25/18	CW	SW8081B
Heptachlor	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Heptachlor epoxide	ND	7.1	ug/Kg	2	10/25/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	10/25/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/25/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	69		%	2	10/25/18	CW	30 - 150 %
% TCMX	61		%	2	10/25/18	CW	30 - 150 %
Client MS/MSD	Completed				10/25/18		

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Chrysene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Fluoranthene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Phenanthrene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
Pyrene	ND	250	ug/Kg	1	10/24/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	10/24/18	WB	30 - 130 %
% Nitrobenzene-d5	70		%	1	10/24/18	WB	30 - 130 %
% Terphenyl-d14	71		%	1	10/24/18	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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November 08, 2018
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Analysis Report

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	13:44
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80593

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Arsenic	4.44	0.85	mg/Kg	1	10/24/18	MGH	SW6010C
Barium	118	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Cadmium	1.12	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Chromium	26.7	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Mercury	0.09	0.03	mg/Kg	1	10/25/18	RS	SW7471B
Lead	125	0.42	mg/Kg	1	10/24/18	MGH	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	10/24/18	MGH	SW6010C
Percent Solid	73		%		10/23/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/23/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/23/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/24/18	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/23/18	MB/VCK	SW3545A
Mercury Digestion	Completed				10/25/18	EV/Q	SW7471B
Soil Extraction for Herbicide	Completed				10/24/18	C/D	SW8151A
Total Metals Digest	Completed				10/23/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	230	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	2300	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	230	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	230	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	39		%	10	10/26/18	CW	30 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-13

Phoenix I.D.: CB80593

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	340	mg/Kg	5	10/24/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	10/24/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	57		%	5	10/24/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1221	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1232	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1242	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1248	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1254	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1260	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1262	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
PCB-1268	ND	440	ug/Kg	10	10/24/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	66		%	10	10/24/18	AW	30 - 150 %
% TCMX	64		%	10	10/24/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
4,4' -DDE	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
4,4' -DDT	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
a-BHC	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Alachlor	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Aldrin	ND	4.4	ug/Kg	2	10/25/18	CW	SW8081B
b-BHC	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Chlordane	ND	44	ug/Kg	2	10/25/18	CW	SW8081B
d-BHC	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Dieldrin	ND	4.4	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan I	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan II	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endosulfan sulfate	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endrin	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endrin aldehyde	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Endrin ketone	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	10/25/18	CW	SW8081B
Heptachlor	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Heptachlor epoxide	ND	8.9	ug/Kg	2	10/25/18	CW	SW8081B
Methoxychlor	ND	44	ug/Kg	2	10/25/18	CW	SW8081B
Toxaphene	ND	180	ug/Kg	2	10/25/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	42		%	2	10/25/18	CW	30 - 150 %
% TCMX	71		%	2	10/25/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-13

Phoenix I.D.: CB80593

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
1,2,3-Trichloropropane	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
2-Hexanone	ND	32	ug/Kg	1	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	1	10/24/18	JLI	SW8260
Acetone	ND	320	ug/Kg	1	10/24/18	JLI	SW8260
Acrylonitrile	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Benzene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromobenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
Bromochloromethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromodichloromethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromoform	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Bromomethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Carbon Disulfide	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Chlorobenzene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloroethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloroform	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Chloromethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Dibromochloromethane	ND	3.8	ug/Kg	1	10/24/18	JLI	SW8260
Dibromomethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Ethylbenzene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
Isopropylbenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
m&p-Xylene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	38	ug/Kg	1	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	10/24/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	13	ug/Kg	1	10/24/18	JLI	SW8260
Naphthalene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
n-Butylbenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
n-Propylbenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
o-Xylene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
sec-Butylbenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
Styrene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	630	ug/Kg	50	10/24/18	JLI	SW8260
Tetrachloroethene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	10/24/18	JLI	SW8260
Toluene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Total Xylenes	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	1300	ug/Kg	50	10/24/18	JLI	SW8260
Trichloroethene	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	13	ug/Kg	1	10/24/18	JLI	SW8260
Vinyl chloride	ND	6.3	ug/Kg	1	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	10/24/18	JLI	70 - 130 %
% Toluene-d8	89		%	1	10/24/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	310	ug/Kg	1	10/25/18	WB	SW8270D
Acenaphthene	ND	310	ug/Kg	1	10/25/18	WB	SW8270D
Acenaphthylene	ND	310	ug/Kg	1	10/25/18	WB	SW8270D
Anthracene	ND	310	ug/Kg	1	10/25/18	WB	SW8270D
Benz(a)anthracene	570	310	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(a)pyrene	710	310	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(b)fluoranthene	600	310	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(ghi)perylene	1000	310	ug/Kg	1	10/25/18	WB	SW8270D
Benzo(k)fluoranthene	530	310	ug/Kg	1	10/25/18	WB	SW8270D
Chrysene	660	310	ug/Kg	1	10/25/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	10/25/18	WB	SW8270D
Fluoranthene	720	310	ug/Kg	1	10/25/18	WB	SW8270D
Fluorene	ND	310	ug/Kg	1	10/25/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	640	310	ug/Kg	1	10/25/18	WB	SW8270D
Naphthalene	ND	310	ug/Kg	1	10/25/18	WB	SW8270D
Phenanthrene	ND	310	ug/Kg	1	10/25/18	WB	SW8270D
Pyrene	820	310	ug/Kg	1	10/25/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	10/25/18	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	10/25/18	WB	30 - 130 %
% Terphenyl-d14	51		%	1	10/25/18	WB	30 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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 there are any questions regarding this data, please call Phoenix Client Services.
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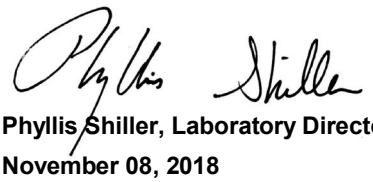

Phyllis Shiller, Laboratory Director
November 08, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	15:20
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80594

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	25	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	200	ug/Kg	50	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	10/24/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-14

Phoenix I.D.: CB80594

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	10/24/18	JLI	SW8260
Acrylonitrile	ND	100	ug/Kg	50	10/24/18	JLI	SW8260
Benzene	ND	200	ug/Kg	50	10/24/18	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Bromodichloromethane	ND	210	ug/Kg	50	10/24/18	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	100	ug/Kg	50	10/24/18	JLI	SW8260
Dibromochloromethane	ND	100	ug/Kg	50	10/24/18	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Styrene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
Toluene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	100	ug/Kg	50	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	10/24/18	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	50	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	98		%	50	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	95		%	50	10/24/18	JLI	70 - 130 %

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-14

Phoenix I.D.: CB80594

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95		%	50	10/24/18	JLI	70 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
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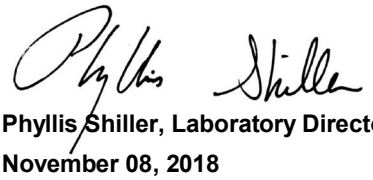

Phyllis Shiller, Laboratory Director
November 08, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 08, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/23/18	15:25
Location Code:	F&O	Received by:	SW	10/23/18	16:31
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB80581
Phoenix ID: CB80595

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/24/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	10/24/18	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/24/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-15

Phoenix I.D.: CB80595

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	10/24/18	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	10/24/18	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/24/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/24/18	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	10/24/18	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/24/18	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/24/18	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/24/18	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	10/24/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	10/24/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	10/24/18	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	10/24/18	JLI	70 - 130 %

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181023-15

Phoenix I.D.: CB80595

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	95		%	1	10/24/18	JLI	70 - 130 %
Field Extraction	Completed				10/23/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 08, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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QA/QC Report

November 08, 2018

QA/QC Data

SDG I.D.: GCB80581

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 453201 (mg/kg), QC Sample No: CB80592 (CB80581, CB80582, CB80583, CB80584, CB80588, CB80590, CB80591, CB80592, CB80593)														
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	91.3	88.6	3.0	63.2			70 - 130	30	m
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 453182 (mg/L), QC Sample No: CB80355 (CB80585, CB80586)														
ICP Metals - TCLP Extraction														
Lead	BRL	0.10	0.34	0.32	NC	98.6			98.3			75 - 125	20	
QA/QC Batch 455218 (mg/L), QC Sample No: CB80588 (CB80588, CB80590)														
ICP Metals - TCLP Extraction														
Lead	BRL	0.10	0.55	0.56	1.80	99.8			100			75 - 125	20	
QA/QC Batch 453128 (mg/kg), QC Sample No: CB80592 (CB80581, CB80582, CB80583, CB80584, CB80585, CB80586, CB80587, CB80588, CB80589, CB80590, CB80591, CB80592, CB80593)														
ICP Metals - Soil														
Arsenic	BRL	0.67	2.17	1.97	NC	93.3			90.0			75 - 125	30	
Barium	BRL	0.33	9.94	9.60	3.50	97.0			97.0			75 - 125	30	
Cadmium	BRL	0.33	<0.35	<0.33	NC	96.6			92.5			75 - 125	30	
Chromium	BRL	0.33	7.05	6.80	3.60	98.0			96.3			75 - 125	30	
Lead	BRL	0.33	2.39	2.39	0	95.7			94.6			75 - 125	30	
Selenium	BRL	1.3	<1.4	<1.3	NC	80.4			73.3			75 - 125	30	m
Silver	BRL	0.33	<0.35	<0.33	NC	90.5			89.8			75 - 125	30	
QA/QC Batch 455220 (mg/L), QC Sample No: CB81944 (CB80588, CB80590)														
ICP Metals - SPLP Extraction														
Arsenic	BRL	0.004	<0.004	<0.004	NC	99.4			99.0			75 - 125	20	
Lead	BRL	0.010	<0.010	<0.010	NC	98.3			97.7			75 - 125	20	

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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QA/QC Report

November 08, 2018

QA/QC Data

SDG I.D.: GCB80581

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 453126 (mg/Kg), QC Sample No: CB80592 (CB80581, CB80582, CB80583, CB80584, CB80588, CB80590, CB80591, CB80592, CB80593)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	80	81	1.2	88	89	1.1	60 - 120	30	
% n-Pentacosane	50	%	51	45	12.5	46	48	4.3	50 - 150	30	l,m
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 453244 (ug/Kg), QC Sample No: CB80259 10X (CB80585, CB80586, CB80587, CB80589, CB80593)											
Chlorinated Herbicides - Soil											
2,4,5-T	ND	83	68	83	19.9	70	51	31.4	40 - 140	30	r
2,4,5-TP (Silvex)	ND	83	73	82	11.6	57	41	32.7	40 - 140	30	r
2,4-D	ND	170	114	76	40.0	58	42	32.0	40 - 140	30	r
2,4-DB	ND	1700	81	93	13.8	69	50	31.9	40 - 140	30	r
Dalapon	ND	83	34	34	0.0	34	23	38.6	40 - 140	30	l,m,r
Dicamba	ND	83	74	79	6.5	73	54	29.9	40 - 140	30	
Dichloroprop	ND	170	86	93	7.8	73	60	19.5	40 - 140	30	
Dinoseb	ND	170	75	80	6.5	61	44	32.4	40 - 140	30	r
% DCAA (Surrogate Rec)	50	%	48	51	6.1	49	36	30.6	30 - 150	30	r
QA/QC Batch 453073 (ug/Kg), QC Sample No: CB80639 2X (CB80588, CB80590, CB80593)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	33	88	85	3.5	68	70	2.9	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	102	104	1.9	75	77	2.6	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	87	%	129	132	2.3	89	94	5.5	30 - 150	30	
% TCMX (Surrogate Rec)	90	%	103	99	4.0	74	78	5.3	30 - 150	30	
QA/QC Batch 453237 (ug/Kg), QC Sample No: CB80592 2X (CB80581, CB80582, CB80583, CB80584, CB80585, CB80586, CB80587, CB80589, CB80591, CB80592)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	91	82	10.4	73	68	7.1	40 - 140	30	
4,4' -DDE	ND	1.7	87	79	9.6	71	64	10.4	40 - 140	30	
4,4' -DDT	ND	1.7	90	81	10.5	74	69	7.0	40 - 140	30	
a-BHC	ND	1.0	85	77	9.9	63	59	6.6	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	85	77	9.9	64	57	11.6	40 - 140	30	
b-BHC	ND	1.0	92	84	9.1	71	67	5.8	40 - 140	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chlordane	ND	33	86	79	8.5	71	64	10.4	40 - 140	30
d-BHC	ND	3.3	88	80	9.5	65	60	8.0	40 - 140	30
Dieldrin	ND	1.0	82	75	8.9	67	61	9.4	40 - 140	30
Endosulfan I	ND	3.3	89	81	9.4	72	64	11.8	40 - 140	30
Endosulfan II	ND	3.3	91	82	10.4	75	71	5.5	40 - 140	30
Endosulfan sulfate	ND	3.3	88	77	13.3	71	68	4.3	40 - 140	30
Endrin	ND	3.3	86	76	12.3	70	63	10.5	40 - 140	30
Endrin aldehyde	ND	3.3	76	73	4.0	71	64	10.4	40 - 140	30
Endrin ketone	ND	3.3	93	83	11.4	76	71	6.8	40 - 140	30
g-BHC	ND	1.0	88	81	8.3	66	61	7.9	40 - 140	30
Heptachlor	ND	3.3	86	77	11.0	66	60	9.5	40 - 140	30
Heptachlor epoxide	ND	3.3	91	83	9.2	72	65	10.2	40 - 140	30
Methoxychlor	ND	3.3	89	79	11.9	76	71	6.8	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	71	%	70	71	1.4	71	66	7.3	30 - 150	30
% TCMX	81	%	90	80	11.8	68	60	12.5	30 - 150	30

QA/QC Batch 453076 (ug/Kg), QC Sample No: CB80639 2X (CB80588, CB80590, CB80593)

Pesticides - Soil

4,4' -DDD	ND	1.7	89	80	10.7	66	58	12.9	40 - 140	30
4,4' -DDE	ND	1.7	84	70	18.2	62	56	10.2	40 - 140	30
4,4' -DDT	ND	1.7	86	73	16.4	82	80	2.5	40 - 140	30
a-BHC	ND	1.0	80	63	23.8	60	54	10.5	40 - 140	30
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	1.0	82	65	23.1	60	51	16.2	40 - 140	30
b-BHC	ND	1.0	87	74	16.1	66	57	14.6	40 - 140	30
Chlordane	ND	33	83	69	18.4	60	53	12.4	40 - 140	30
d-BHC	ND	3.3	81	69	16.0	60	53	12.4	40 - 140	30
Dieldrin	ND	1.0	87	72	18.9	64	64	0.0	40 - 140	30
Endosulfan I	ND	3.3	83	69	18.4	50	52	3.9	40 - 140	30
Endosulfan II	ND	3.3	92	79	15.2	59	52	12.6	40 - 140	30
Endosulfan sulfate	ND	3.3	90	76	16.9	58	51	12.8	40 - 140	30
Endrin	ND	3.3	73	54	29.9	51	54	5.7	40 - 140	30
Endrin aldehyde	ND	3.3	80	71	11.9	55	51	7.5	40 - 140	30
Endrin ketone	ND	3.3	97	86	12.0	60	56	6.9	40 - 140	30
g-BHC	ND	1.0	83	68	19.9	54	49	9.7	40 - 140	30
Heptachlor	ND	3.3	81	64	23.4	65	58	11.4	40 - 140	30
Heptachlor epoxide	ND	3.3	86	72	17.7	58	54	7.1	40 - 140	30
Methoxychlor	ND	3.3	84	70	18.2	59	52	12.6	40 - 140	30
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	102	%	100	86	15.1	68	67	1.5	30 - 150	30
% TCMX	87	%	88	66	28.6	61	55	10.3	30 - 150	30

QA/QC Batch 453233 (ug/kg), QC Sample No: CB80592 (CB80581, CB80582, CB80583, CB80584, CB80588, CB80591, CB80592, CB80593)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	71	70	1.4	63	60	4.9	30 - 130	30
Acenaphthene	ND	230	78	81	3.8	67	65	3.0	30 - 130	30
Acenaphthylene	ND	230	72	74	2.7	62	60	3.3	30 - 130	30
Anthracene	ND	230	76	78	2.6	66	64	3.1	30 - 130	30
Benz(a)anthracene	ND	230	80	80	0.0	68	65	4.5	30 - 130	30
Benzo(a)pyrene	ND	230	76	78	2.6	64	63	1.6	30 - 130	30
Benzo(b)fluoranthene	ND	230	81	84	3.6	67	67	0.0	30 - 130	30
Benzo(ghi)perylene	ND	230	76	79	3.9	64	67	4.6	30 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(k)fluoranthene	ND	230	76	77	1.3	65	66	1.5	30 - 130	30
Chrysene	ND	230	80	83	3.7	67	67	0.0	30 - 130	30
Dibenz(a,h)anthracene	ND	230	84	87	3.5	70	71	1.4	30 - 130	30
Fluoranthene	ND	230	79	85	7.3	69	67	2.9	30 - 130	30
Fluorene	ND	230	80	82	2.5	70	68	2.9	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	78	82	5.0	66	67	1.5	30 - 130	30
Naphthalene	ND	230	64	67	4.6	59	55	7.0	30 - 130	30
Phenanthrene	ND	230	77	81	5.1	67	64	4.6	30 - 130	30
Pyrene	ND	230	81	86	6.0	69	67	2.9	30 - 130	30
% 2-Fluorobiphenyl	68	%	72	75	4.1	63	61	3.2	30 - 130	30
% Nitrobenzene-d5	67	%	80	80	0.0	85	64	28.2	30 - 130	30
% Terphenyl-d14	76	%	74	80	7.8	64	61	4.8	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 453508 (ug/kg), QC Sample No: CB81410 (CB80590)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	72	71	1.4	55	55	0.0	30 - 130	30
Acenaphthene	ND	230	68	68	0.0	52	52	0.0	30 - 130	30
Acenaphthylene	ND	230	67	66	1.5	51	51	0.0	30 - 130	30
Anthracene	ND	230	73	72	1.4	55	55	0.0	30 - 130	30
Benz(a)anthracene	ND	230	74	73	1.4	54	54	0.0	30 - 130	30
Benzo(a)pyrene	ND	230	75	75	0.0	54	54	0.0	30 - 130	30
Benzo(b)fluoranthene	ND	230	76	74	2.7	57	57	0.0	30 - 130	30
Benzo(ghi)perylene	ND	230	69	69	0.0	49	49	0.0	30 - 130	30
Benzo(k)fluoranthene	ND	230	72	70	2.8	51	51	0.0	30 - 130	30
Chrysene	ND	230	72	71	1.4	53	53	0.0	30 - 130	30
Dibenz(a,h)anthracene	ND	230	78	79	1.3	56	56	0.0	30 - 130	30
Fluoranthene	ND	230	78	77	1.3	58	58	0.0	30 - 130	30
Fluorene	ND	230	73	70	4.2	54	54	0.0	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	76	76	0.0	54	54	0.0	30 - 130	30
Naphthalene	ND	230	63	63	0.0	49	49	0.0	30 - 130	30
Phenanthrene	ND	230	69	68	1.5	52	52	0.0	30 - 130	30
Pyrene	ND	230	77	77	0.0	58	58	0.0	30 - 130	30
% 2-Fluorobiphenyl	59	%	68	67	1.5	52	52	0.0	30 - 130	30
% Nitrobenzene-d5	57	%	71	70	1.4	55	55	0.0	30 - 130	30
% Terphenyl-d14	65	%	71	71	0.0	55	55	0.0	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 453216 (ug/kg), QC Sample No: CB79773 (CB80581, CB80582, CB80583, CB80584, CB80590, CB80594 (50X) , CB80595)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	99	103	4.0	105	104	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	101	103	2.0	111	115	3.5	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	97	97	0.0	91	93	2.2	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	98	96	2.1	94	95	1.1	70 - 130	30
1,1-Dichloroethane	ND	5.0	101	101	0.0	97	96	1.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	102	106	3.8	101	103	2.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	96	97	1.0	102	105	2.9	70 - 130	30

QA/QC Data

SDG I.D.: GCB80581

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	5.0	87	87	0.0	92	95	3.2	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	92	91	1.1	90	90	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	83	84	1.2	91	93	2.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	92	93	1.1	99	101	2.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	97	94	3.1	85	88	3.5	70 - 130	30	
1,2-Dibromoethane	ND	5.0	99	100	1.0	94	93	1.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	92	93	1.1	96	96	0.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	98	101	3.0	110	107	2.8	70 - 130	30	
1,2-Dichloropropane	ND	5.0	97	100	3.0	94	89	5.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	92	94	2.2	98	103	5.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	91	92	1.1	95	96	1.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	98	99	1.0	90	95	5.4	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	88	88	0.0	94	94	0.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	101	96	5.1	109	113	3.6	70 - 130	30	
2-Chlorotoluene	ND	5.0	95	96	1.0	97	99	2.0	70 - 130	30	
2-Hexanone	ND	25	98	96	2.1	93	88	5.5	70 - 130	30	
2-Isopropyltoluene	ND	5.0	100	102	2.0	106	110	3.7	70 - 130	30	
4-Chlorotoluene	ND	5.0	91	90	1.1	94	96	2.1	70 - 130	30	
4-Methyl-2-pentanone	ND	25	102	99	3.0	90	88	2.2	70 - 130	30	
Acetone	ND	10	73	68	7.1	71	64	10.4	70 - 130	30	l,m
Acrylonitrile	ND	5.0	103	99	4.0	90	87	3.4	70 - 130	30	
Benzene	ND	1.0	95	97	2.1	94	94	0.0	70 - 130	30	
Bromobenzene	ND	5.0	94	96	2.1	95	96	1.0	70 - 130	30	
Bromochloromethane	ND	5.0	99	98	1.0	91	93	2.2	70 - 130	30	
Bromodichloromethane	ND	5.0	102	104	1.9	105	103	1.9	70 - 130	30	
Bromoform	ND	5.0	106	108	1.9	98	101	3.0	70 - 130	30	
Bromomethane	ND	5.0	99	98	1.0	93	95	2.1	70 - 130	30	
Carbon Disulfide	ND	5.0	103	105	1.9	91	94	3.2	70 - 130	30	
Carbon tetrachloride	ND	5.0	100	101	1.0	111	111	0.0	70 - 130	30	
Chlorobenzene	ND	5.0	94	98	4.2	98	101	3.0	70 - 130	30	
Chloroethane	ND	5.0	106	108	1.9	65	65	0.0	70 - 130	30	m
Chloroform	ND	5.0	95	97	2.1	101	98	3.0	70 - 130	30	
Chloromethane	ND	5.0	98	99	1.0	90	87	3.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	100	101	1.0	97	94	3.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	100	99	1.0	96	92	4.3	70 - 130	30	
Dibromochloromethane	ND	3.0	112	113	0.9	105	107	1.9	70 - 130	30	
Dibromomethane	ND	5.0	100	99	1.0	100	95	5.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	105	108	2.8	113	112	0.9	70 - 130	30	
Ethylbenzene	ND	1.0	94	97	3.1	98	104	5.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	90	93	3.3	83	92	10.3	70 - 130	30	
Isopropylbenzene	ND	1.0	95	98	3.1	95	103	8.1	70 - 130	30	
m&p-Xylene	ND	2.0	92	94	2.2	99	103	4.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	94	92	2.2	93	88	5.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	111	111	0.0	108	104	3.8	70 - 130	30	
Methylene chloride	ND	5.0	95	93	2.1	93	93	0.0	70 - 130	30	
Naphthalene	ND	5.0	96	98	2.1	105	107	1.9	70 - 130	30	
n-Butylbenzene	ND	1.0	91	93	2.2	99	104	4.9	70 - 130	30	
n-Propylbenzene	ND	1.0	94	96	2.1	96	101	5.1	70 - 130	30	
o-Xylene	ND	2.0	98	100	2.0	100	102	2.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	93	96	3.2	102	107	4.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	98	100	2.0	101	106	4.8	70 - 130	30	
Styrene	ND	5.0	95	96	1.0	96	101	5.1	70 - 130	30	
tert-Butylbenzene	ND	1.0	96	98	2.1	100	105	4.9	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Tetrachloroethene	ND	5.0	95	95	0.0	103	107	3.8	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	97	101	4.0	88	89	1.1	70 - 130	30	
Toluene	ND	1.0	97	98	1.0	101	100	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	94	114	19.2	116	109	6.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	95	97	2.1	97	95	2.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	107	109	1.9	92	95	3.2	70 - 130	30	
Trichloroethene	ND	5.0	100	99	1.0	101	104	2.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	102	103	1.0	59	52	12.6	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	103	100	3.0	107	111	3.7	70 - 130	30	
Vinyl chloride	ND	5.0	107	109	1.9	94	96	2.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	104	102	1.9	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	98	%	101	101	0.0	104	104	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	100	101	1.0	97	96	1.0	70 - 130	30	
% Toluene-d8	95	%	102	101	1.0	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%.

QA/QC Batch 453498 (ug/kg), QC Sample No: CB80593 (CB80588 (1X, 50X) , CB80590 (50X) , CB80593 (1X, 50X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	108	110	1.8	107	92	15.1	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	101	106	4.8	99	85	15.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	111	113	1.8	114	97	16.1	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	104	106	1.9	107	90	17.3	70 - 130	30	
1,1-Dichloroethane	ND	5.0	100	103	3.0	93	80	15.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	102	101	1.0	76	104	31.1	70 - 130	30	r
1,1-Dichloropropene	ND	5.0	99	105	5.9	100	85	16.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	96	106	9.9	99	87	12.9	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	108	108	0.0	107	91	16.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	93	109	15.8	103	89	14.6	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	98	106	7.8	99	86	14.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	115	110	4.4	107	93	14.0	70 - 130	30	
1,2-Dibromoethane	ND	5.0	107	108	0.9	109	93	15.8	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	101	106	4.8	104	90	14.4	70 - 130	30	
1,2-Dichloroethane	ND	5.0	104	106	1.9	102	86	17.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	103	105	1.9	102	87	15.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	99	106	6.8	99	85	15.2	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	97	106	8.9	102	89	13.6	70 - 130	30	
1,3-Dichloropropane	ND	5.0	106	106	0.0	107	91	16.2	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	97	106	8.9	102	89	13.6	70 - 130	30	
2,2-Dichloropropane	ND	5.0	105	113	7.3	101	88	13.8	70 - 130	30	
2-Chlorotoluene	ND	5.0	97	105	7.9	99	84	16.4	70 - 130	30	
2-Hexanone	ND	25	104	104	0.0	107	88	19.5	70 - 130	30	
2-Isopropyltoluene	ND	5.0	105	111	5.6	104	91	13.3	70 - 130	30	
4-Chlorotoluene	ND	5.0	96	104	8.0	100	86	15.1	70 - 130	30	
4-Methyl-2-pentanone	ND	25	110	106	3.7	107	87	20.6	70 - 130	30	
Acetone	ND	10	79	79	0.0	63	52	19.1	70 - 130	30	m
Acrylonitrile	ND	5.0	108	104	3.8	99	83	17.6	70 - 130	30	
Benzene	ND	1.0	101	104	2.9	101	86	16.0	70 - 130	30	
Bromobenzene	ND	5.0	99	104	4.9	101	86	16.0	70 - 130	30	
Bromochloromethane	ND	5.0	106	107	0.9	104	89	15.5	70 - 130	30	
Bromodichloromethane	ND	5.0	111	112	0.9	106	89	17.4	70 - 130	30	
Bromoform	ND	5.0	122	119	2.5	113	96	16.3	70 - 130	30	
Bromomethane	ND	5.0	96	104	8.0	63	56	11.8	70 - 130	30	m

QA/QC Data

SDG I.D.: GCB80581

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Carbon Disulfide	ND	5.0	99	105	5.9	74	92	21.7	70 - 130	30
Carbon tetrachloride	ND	5.0	100	108	7.7	94	80	16.1	70 - 130	30
Chlorobenzene	ND	5.0	100	106	5.8	102	88	14.7	70 - 130	30
Chloroethane	ND	5.0	95	93	2.1	109	115	5.4	70 - 130	30
Chloroform	ND	5.0	103	105	1.9	101	87	14.9	70 - 130	30
Chloromethane	ND	5.0	96	101	5.1	93	79	16.3	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	111	111	0.0	106	86	20.8	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	105	111	5.6	106	90	16.3	70 - 130	30
Dibromochloromethane	ND	3.0	119	122	2.5	116	98	16.8	70 - 130	30
Dibromomethane	ND	5.0	106	105	0.9	104	88	16.7	70 - 130	30
Dichlorodifluoromethane	ND	5.0	100	105	4.9	91	79	14.1	70 - 130	30
Ethylbenzene	ND	1.0	100	104	3.9	100	86	15.1	70 - 130	30
Hexachlorobutadiene	ND	5.0	96	106	9.9	102	90	12.5	70 - 130	30
Isopropylbenzene	ND	1.0	101	106	4.8	98	86	13.0	70 - 130	30
m&p-Xylene	ND	2.0	99	106	6.8	103	88	15.7	70 - 130	30
Methyl ethyl ketone	ND	5.0	100	103	3.0	100	83	18.6	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	114	112	1.8	104	89	15.5	70 - 130	30
Methylene chloride	ND	5.0	96	96	0.0	90	77	15.6	70 - 130	30
Naphthalene	ND	5.0	109	110	0.9	106	92	14.1	70 - 130	30
n-Butylbenzene	ND	1.0	96	108	11.8	99	86	14.1	70 - 130	30
n-Propylbenzene	ND	1.0	98	106	7.8	97	85	13.2	70 - 130	30
o-Xylene	ND	2.0	102	108	5.7	106	91	15.2	70 - 130	30
p-Isopropyltoluene	ND	1.0	98	107	8.8	99	86	14.1	70 - 130	30
sec-Butylbenzene	ND	1.0	103	110	6.6	101	89	12.6	70 - 130	30
Styrene	ND	5.0	103	109	5.7	108	92	16.0	70 - 130	30
tert-Butylbenzene	ND	1.0	99	104	4.9	97	85	13.2	70 - 130	30
Tetrachloroethene	ND	5.0	94	102	8.2	96	83	14.5	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	108	105	2.8	105	88	17.6	70 - 130	30
Toluene	ND	1.0	100	104	3.9	100	85	16.2	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	102	104	1.9	97	81	18.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	105	109	3.7	103	87	16.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	123	129	4.8	118	100	16.5	70 - 130	30
Trichloroethene	ND	5.0	102	104	1.9	99	85	15.2	70 - 130	30
Trichlorofluoromethane	ND	5.0	101	108	6.7	110	111	0.9	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	102	109	6.6	80	97	19.2	70 - 130	30
Vinyl chloride	ND	5.0	103	110	6.6	95	83	13.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	100	100	0.0	101	100	1.0	70 - 130	30
% Bromofluorobenzene	97	%	99	100	1.0	103	103	0.0	70 - 130	30
% Dibromofluoromethane	93	%	96	98	2.1	91	92	1.1	70 - 130	30
% Toluene-d8	101	%	100	99	1.0	98	97	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%.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GCB80581

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD 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 08, 2018

Thursday, November 08, 2018

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCB80581 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB80581	$ETPH_SMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	570	290	500	500	mg/Kg
CB80588	$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	3000	450	1000	1000	ug/Kg
CB80588	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1900	450	1000	1000	ug/Kg
CB80588	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3700	450	1000	1000	ug/Kg
CB80588	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	3000	450	1000	1000	ug/Kg
CB80588	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2500	450	1000	1000	ug/Kg
CB80588	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1900	450	1000	1000	ug/Kg
CB80588	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	4000	450	1000	1000	ug/Kg
CB80588	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1900	450	1000	1000	ug/Kg
CB80588	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2500	450	1000	1000	ug/Kg
CB80588	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	3000	450	1000	1000	ug/Kg
CB80588	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	3700	450	1000	1000	ug/Kg
CB80588	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2200	450	1000	1000	ug/Kg
CB80588	AS-SM	Arsenic	CT / RSR DEC I/C (mg/kg) / Inorganics	120	0.95	10	10	mg/Kg
CB80588	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	120	0.95	10	10	mg/Kg
CB80588	PB-SM	Lead	CT / RSR DEC I/C (mg/kg) / Inorganics	1430	4.8	1000	1000	mg/Kg
CB80588	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	1430	4.8	400	400	mg/Kg
CB80588	TCLP-PB	TCLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.55	0.10	0.15	0.15	mg/L
CB80590	$PEST_SMR	4,4' -DDD	CT / RSR GB (mg/kg) / APS Organics	34	8.0	20	20	ug/Kg
CB80590	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	36	8.0	20	20	ug/Kg
CB80590	PB-SM	Lead	CT / RSR DEC I/C (mg/kg) / Inorganics	1360	4.2	1000	1000	mg/Kg
CB80590	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	1360	4.2	400	400	mg/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: RUSSO FAMILY PROPERTIES ***Project Number:***

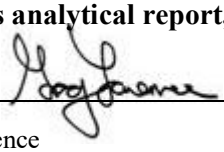
Laboratory Sample ID(s): CB80581-CB80595 ***Sampling Date(s):*** 10/23/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8082, 8151, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **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 acheived? See Sections: ETPH Narration, Herbicide Narration, ICP Narration, Mercury 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, November 08, 2018

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 08, 2018

SDG I.D.: GCB80581

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 453126 (Samples: CB80581, CB80582, CB80583, CB80584, CB80588, CB80590, CB80591, CB80592, CB80593): -----

The surrogate recovery is below the lower range. The target analyte recovery is acceptable. No significant bias is suspected. (% n-Pentacosane)

Instrument:

AU-FID1 10/24/18-1 Jeff Bucko, Chemist 10/24/18

CB80581, CB80588, CB80590, CB80593

The initial calibration (ETPH913I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 10/24/18-1 Jeff Bucko, Chemist 10/24/18

CB80592

The initial calibration (ETPH924I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 10/24/18-1 Jeff Bucko, Chemist 10/24/18

CB80582, CB80583, CB80584, CB80591

The initial calibration (ETPH919I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 453126 (CB80592)

CB80581, CB80582, CB80583, CB80584, CB80588, CB80590, CB80591, CB80592, CB80593

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: % n-Pentacosane(45%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: % n-Pentacosane(46%)
All MSD recoveries were within 50 - 150 with the following exceptions: % n-Pentacosane(48%)
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.

Herbicide Narration

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 08, 2018

SDG I.D.: GCB80581

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

QC Batch 453244 (Samples: CB80585, CB80586, CB80587, CB80589, CB80593): -----

The QC recovery is below the lower range. A low bias is possible. (Dalapon)

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. (2,4-D)

Instrument:

AU-ECD2 10/25/18-1 Carol Wohlmuth, Chemist 10/25/18

CB80585, CB80586, CB80587, CB80589, CB80593

The initial calibration (HRBO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRBO24BI) 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 453244 (CB80259)

CB80585, CB80586, CB80587, CB80589, CB80593

All LCS recoveries were within 40 - 140 with the following exceptions: Dalapon(34%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Dalapon(34%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-D(40.0%)

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 453201 (Samples: CB80581, CB80582, CB80583, CB80584, CB80588, CB80590, CB80591, CB80592, CB80593): -----

The LCS/LCSD recovery is acceptable. The site specific matrix spike recovery is below the method criteria, therefore a low bias is possible. (Mercury)

Instrument:

MERLIN 10/25/18 08:09 Rick Schweitzer, Chemist 10/25/18

CB80581, CB80582, CB80583, CB80584, CB80588, CB80590, CB80591, CB80592, CB80593

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
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 453201 (CB80592)

CB80581, CB80582, CB80583, CB80584, CB80588, CB80590, CB80591, CB80592, CB80593

All LCS recoveries were within 70 - 130 with the following exceptions: None.

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Certification Report

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SDG I.D.: GCB80581

Mercury Narration

All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: Mercury(63.2%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 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 453128 (Samples: CB80581, CB80582, CB80583, CB80584, CB80585, CB80586, CB80587, CB80588, CB80589, CB80590, CB80591, CB80592, CB80593): -----

The LCS/LCSD recovery is acceptable. One analyte in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (Selenium)

Instrument:

ARCOS 10/24/18 08:13 Cindy Pearce, Emily Kolominskaya, Mike Hornak, Chemist 10

CB80581, CB80582, CB80583, CB80584, CB80585, CB80586, CB80587, CB80588, CB80589, CB80590, CB80591, CB80592, CB80593

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 10/25/18 08:29 Cindy Pearce, Emily Kolominskaya, Mike Hornak, Chemist 10

CB80588, CB80590

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 11/07/18 08:02 Cindy Pearce, Emily Kolominskaya, Mike Hornak, Chemist 11

CB80588, CB80590

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.

BLUE 11/07/18 08:58 Cindy Pearce, Chemist 11/07/18

CB80588, CB80590

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

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Certification Report

November 08, 2018

SDG I.D.: GCB80581

ICP Metals Narration

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 453182 (CB80355)

CB80585, CB80586

All LCS recoveries were within 75 - 125 with the following exceptions: None.

Batch 455220 (CB81944)

CB80588, CB80590

All LCS recoveries were within 75 - 125 with the following exceptions: None.

QC (Site Specific):

Batch 453128 (CB80592)

CB80581, CB80582, CB80583, CB80584, CB80585, CB80586, CB80587, CB80588, CB80589, CB80590, CB80591, CB80592, CB80593

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: Selenium(73.3%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Batch 455218 (CB80588)

CB80588, CB80590

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD29 10/24/18-1 Adam Werner, Chemist 10/24/18

CB80588, CB80590

The initial calibration (PC920AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC920BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD5 10/24/18-1 Adam Werner, Chemist 10/24/18

CB80593

The initial calibration (PC1010AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1010BI) 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.

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RCP Certification Report

November 08, 2018

SDG I.D.: GCB80581

PCB Narration

QC (Batch Specific):

Batch 453073 (CB80639)

CB80588, CB80590, CB80593

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD4 10/26/18-1 Carol Wohlmuth, Chemist 10/26/18

CB80585, CB80589

The initial calibration (PSO18AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO18BI) 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 10/25/18-1 Carol Wohlmuth, Chemist 10/25/18

CB80588, CB80590, CB80592, CB80593

The initial calibration (PSO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO24BI) 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 10/29/18-2 Carol Wohlmuth, Chemist 10/29/18

CB80582, CB80583, CB80584, CB80586, CB80587, CB80591

The initial calibration (PSO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO24BI) 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:
O29A036 (CB80582, CB80583, CB80584, CB80586, CB80587, CB80591) - Endrin Breakdown (20%)
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: CB80582, CB80583, CB80584, CB80586, CB80587, CB80591
Preceding CC O29A037 - Endrin aldehyde 21%H (20%)
Succeeding CC O29A050 - Endrin aldehyde 22%H (20%)

AU-ECD7 10/30/18-1 Carol Wohlmuth, Chemist 10/30/18

CB80581

The initial calibration (PSO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO24BI) 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.: GCB80581

PEST Narration

QC (Batch Specific):

Batch 453076 (CB80639)

CB80588, CB80590, CB80593

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 453237 (CB80592)

CB80581, CB80582, CB80583, CB80584, CB80585, CB80586, CB80587, CB80589, CB80591, CB80592

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 150 with the following exceptions: None.
All MSD recoveries were within 30 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM19 10/24/18-2 Wes Bryon, Chemist 10/24/18

CB80581, CB80582, CB80583, CB80584, CB80588, CB80591, CB80592, CB80593

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 Verification (CHEM19/19_BN_1009):
97% 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 (CHEM19/1024_16-19_BN_1009):
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 10/25/18-1 Adam Werner, Chemist 10/25/18

CB80590

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.: GCB80581

SVOA Narration

Initial Calibration Verification (CHEM28/28_BN_1009):
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 (CHEM28/1025_06-28_BN_1009):
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 453508 (CB81410)

CB80590

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
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%)

QC (Site Specific):

Batch 453233 (CB80592)

CB80581, CB80582, CB80583, CB80584, CB80588, CB80591, CB80592, CB80593

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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RCP Certification Report

November 08, 2018

SDG I.D.: GCB80581

VOA Narration

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

QC Batch 453216 (Samples: CB80581, CB80582, CB80583, CB80584, CB80590, CB80594, CB80595): -----

The LCSD and Batch MSD recovery is below the lower range, but within the method criteria. A slight low bias is possible. (Acetone)

QC Batch 453498 (Samples: CB80588, CB80590, CB80593): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range but within the method criteria. Therefore a slight low bias is possible. (Acetone, Bromomethane)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (1,1-Dichloroethene)

Instrument:

CHEM14 10/23/18-2 Jane Li, Chemist 10/23/18

CB80581, CB80582, CB80583, CB80584, CB80590, CB80594, CB80595

Initial Calibration Verification (CHEM14/vt-1023):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 30% (20%), Naphthalene 23% (20%)
The following compounds did not meet recommended response factors: Acetone 0.067 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM14/1023_43-vt-1023):
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 recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM31 10/24/18-1 Jane Li, Chemist 10/24/18

CB80588, CB80590, CB80593

Initial Calibration Verification (CHEM31/VT-L10218):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 25% (20%), Bromoform 24% (20%), Chloroethane 31% (20%)
The following compounds did not meet recommended response factors: Bromoform 0.083 (0.1), Tetrachloroethene 0.173 (0.2)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM31/1024_07-VT-L10218):
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 recommended response factors: Bromoform 0.093 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

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RCP Certification Report

November 08, 2018

SDG I.D.: GCB80581

VOA Narration

Batch 453216 (CB79773)

CB80581, CB80582, CB80583, CB80584, CB80590, CB80594, CB80595

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(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%.

QC (Site Specific):

Batch 453498 (CB80593)

CB80588, CB80590, CB80593

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: Acetone(63%), Bromomethane(63%)
All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(52%), Bromomethane(56%)
All MS/MSD RPDs were less than 30% with the following exceptions: 1,1-Dichloroethene(31.1%)
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%.

Temperature Narration

The samples were received at 2.3C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

2.3 0 ec
1 P

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☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 39496

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Russo Family Properties	Windsor, CT	20170277.A20	Phoenix

REPORT TO: Stefanie Wierszchalek
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: Date: 10/23/18

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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	RCRA 8 Metals	VOCs	ETPH	PAHs	Pesticides	Herbicides	PCBs	As + Pb	Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container (8) oz	Other: Glass Soil 4 oz	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
01					1534181023-01	S	10/23/18	910	X	X	X	X	X				1	2	1								80581
02					-02			958	X	X	X	X	X				1	2	1								80582
03					-03			1033	X	X	X	X	X				1	2	1								80583
04					-04			1052	X	X	X	X	X				1	2	1								80584
05					-05			1145					X	X		X			1	1							80585 Run TCLP Pb
06					-06			1230					X	X		X			1	1							80586 Run TCLP Pb
07					-07			1305					X	X		X			1								80587
08					-08			1325	X	X	X	X	X		X		1	2	1								80588
09					-09			1418					X	X		X			1								80589
10					-10			1420	X	X	X	X	X		X		1	2	1								80590

Transfer Number	Relinquished By	Accepted By	Date	Time
1			10/23/18	16:3
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.
GB PMC, RSDEL, I/C DEC
Additional Comments:

2.3 owc
1n

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☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 39497

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Russo Family Properties	Windsor, CT	20170277.A20	Phoenix

REPORT TO: Stefanie Wierszchalek
INVOICE TO: ↓
P.O. NO.:

Sampler's Signature: [signature] Date: 10/23/18

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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH	PAHs	Pesticides	RCRA 8 Metals	VOCs	PCBs	Herbicides	Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☒ water ☐ $NaSO_4$)2	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
11					153418 1023-11	S	10/23/18	1450	X	X	X	X						1									80591
12					-12			1457	X	X	X	X						3									MS/MSD 80592
13					-13	↓		1344	X	X	X	X	X	X	X		1	2	1									80593
14					-14	X		1520					X				1											TB 80594
15					-15	X	↓	1525					X					2										TB 80595

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	10/23/18	1613
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
_____ Duplicates 2 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC, Res DEC, I/C DEC
Additional Comments:

Sarah Bell

From: Stefanie Wierszchalek <SWierszchalek@fando.com>
Sent: Tuesday, November 06, 2018 9:47 AM
To: Bobbi Aloisa
Cc: Sarah Bell
Subject: Russo Family Properties - Add On Analyses (GCB80581 & GCB81454)

Good morning Bobbi,

I need to request additional analyses for a handful of samples from the Russo Family Properties project. Please run the following:

Phoenix Sample ID	F&O Sample ID	Add On Parameters
CB81472	1534181024-34	Pesticides
CB81478	1534181024-40	Pesticides
CB81491	1534181024-53	Pesticides
CB80588	1534181023-08	SPLP Arsenic SPLP Lead TCLP Lead
CB80590	1534181023-10	SPLP Lead TCLP Lead

Please let me know if you have any questions or need more information.

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
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PHOENIX
Environmental Laboratories, Inc.

Tuesday, November 13, 2018

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

Project ID: RUSSO FAMILY PROPERTIES
Sample ID#s: CB81454 - CB81465, CB81467 - CB81468, CB81470 - CB81474, CB81476 - CB81480, CB81482 - CB81484, CB81486 - CB81487, CB81489 - CB81493, CB81495 - CB81497

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	8:50
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81454

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/26/18	AA/V	SW3545A
Polychlorinated Biphenyls							
PCB-1016	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1221	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1232	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1242	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1248	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1254	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1260	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1262	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1268	ND	330	ug/Kg	10	10/29/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	10/29/18	AW	30 - 150 %
% TCMX	107		%	10	10/29/18	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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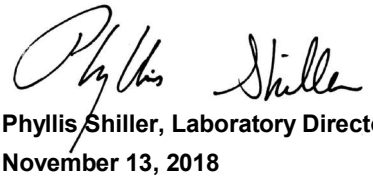

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	9:20
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81455

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/26/18	AA/V	SW3545A
Polychlorinated Biphenyls							
PCB-1016	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1221	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1232	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1242	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1248	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1254	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1260	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1262	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
PCB-1268	ND	340	ug/Kg	10	10/29/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	10/29/18	AW	30 - 150 %
% TCMX	103		%	10	10/29/18	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	9:55
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81456

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	10/25/18	EK	SW6010C
Arsenic	3.84	0.78	mg/Kg	1	10/25/18	EK	SW6010C
Barium	129	0.39	mg/Kg	1	10/25/18	EK	SW6010C
Cadmium	0.67	0.39	mg/Kg	1	10/25/18	EK	SW6010C
Chromium	30.8	0.39	mg/Kg	1	10/25/18	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	7.65	0.39	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	10/25/18	EK	SW6010C
Percent Solid	81		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Soil Extraction for Herbicide	Completed				10/24/18	C/Z/DR	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	210	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	2100	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	210	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	210	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	47		%	10	10/26/18	CW	30 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-18

Phoenix I.D.: CB81456

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1254	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	400	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	99		%	10	10/26/18	AW	30 - 150 %
% TCMX	84		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDT	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
a-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	40	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	57		%	2	10/26/18	CW	30 - 150 %
% TCMX	74		%	2	10/26/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-18

Phoenix I.D.: CB81456

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	10/28/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	10/28/18	JLI	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	10/28/18	JLI	SW8260
Acetone	ND	270	ug/Kg	1	10/28/18	JLI	SW8260
Acrylonitrile	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Benzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromobenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromochloromethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromoform	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromomethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Chlorobenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Chloroethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Chloroform	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Chloromethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	1	10/28/18	JLI	SW8260
Dibromomethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Ethylbenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
m&p-Xylene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	1	10/28/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	10/28/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	11	ug/Kg	1	10/28/18	JLI	SW8260
Naphthalene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
o-Xylene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Styrene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	10/28/18	JLI	SW8260
Toluene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Total Xylenes	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	10/28/18	JLI	SW8260
Trichloroethene	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorotrifluoroethane	ND	11	ug/Kg	1	10/28/18	JLI	SW8260
Vinyl chloride	ND	5.4	ug/Kg	1	10/28/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	10/28/18	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	10/28/18	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	10/28/18	JLI	70 - 130 %
% Toluene-d8	87		%	1	10/28/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Anthracene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Chrysene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Fluoranthene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Fluorene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Phenanthrene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
Pyrene	ND	280	ug/Kg	1	10/26/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	1	10/26/18	AW	30 - 130 %
% Nitrobenzene-d5	50		%	1	10/26/18	AW	30 - 130 %
% Terphenyl-d14	59		%	1	10/26/18	AW	30 - 130 %
Field Extraction	Completed				10/24/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	10:00
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81457

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	10/25/18	EK	SW6010C
Arsenic	3.39	0.75	mg/Kg	1	10/25/18	EK	SW6010C
Barium	120	0.38	mg/Kg	1	10/25/18	EK	SW6010C
Cadmium	0.64	0.38	mg/Kg	1	10/25/18	EK	SW6010C
Chromium	28.0	0.38	mg/Kg	1	10/25/18	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	7.58	0.38	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	10/25/18	EK	SW6010C
Percent Solid	83		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	200	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	2000	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	200	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	200	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	50		%	10	10/26/18	CW	30 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-19

Phoenix I.D.: CB81457

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1254	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	390	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	76		%	10	10/26/18	AW	30 - 150 %
% TCMX	58		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDE	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDT	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
a-BHC	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Alachlor	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	10/30/18	CW	SW8081B
b-BHC	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Chlordane	ND	39	ug/Kg	2	10/30/18	CW	SW8081B
d-BHC	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan I	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan II	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan sulfate	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endrin	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endrin aldehyde	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Endrin ketone	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	7.8	ug/Kg	2	10/30/18	CW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	10/30/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/30/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	52		%	2	10/30/18	CW	30 - 150 %
% TCMX	38		%	2	10/30/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-19

Phoenix I.D.: CB81457

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	10/28/18	JLI	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromoethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	10/28/18	JLI	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	10/28/18	JLI	SW8260
Acetone	ND	240	ug/Kg	1	10/28/18	JLI	SW8260
Acrylonitrile	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Benzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromobenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromochloromethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromodichloromethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromoform	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromomethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Chlorobenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Chloroethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Chloroform	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Chloromethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	10/28/18	JLI	SW8260
Dibromomethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Ethylbenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
m&p-Xylene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	1	10/28/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.5	ug/Kg	1	10/28/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	9.5	ug/Kg	1	10/28/18	JLI	SW8260
Naphthalene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
o-Xylene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Styrene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.5	ug/Kg	1	10/28/18	JLI	SW8260
Toluene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Total Xylenes	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.5	ug/Kg	1	10/28/18	JLI	SW8260
Trichloroethene	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorotrifluoroethane	ND	9.5	ug/Kg	1	10/28/18	JLI	SW8260
Vinyl chloride	ND	4.8	ug/Kg	1	10/28/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	10/28/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	10/28/18	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	10/28/18	JLI	70 - 130 %
% Toluene-d8	87		%	1	10/28/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Anthracene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Chrysene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Fluoranthene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Fluorene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Phenanthrene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
Pyrene	ND	270	ug/Kg	1	10/26/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	10/26/18	AW	30 - 130 %
% Nitrobenzene-d5	53		%	1	10/26/18	AW	30 - 130 %
% Terphenyl-d14	58		%	1	10/26/18	AW	30 - 130 %
Field Extraction	Completed				10/24/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

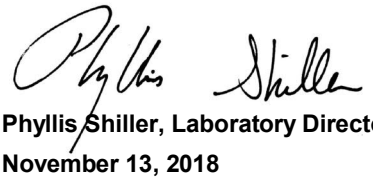
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

DUPLICATE INCLUDED

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	10:15
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81458

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	10/25/18	EK	SW6010C
Arsenic	3.89	0.80	mg/Kg	1	10/25/18	EK	SW6010C
Barium	51.5	0.40	mg/Kg	1	10/25/18	EK	SW6010C
Cadmium	0.60	0.40	mg/Kg	1	10/25/18	EK	SW6010C
Chromium	22.7	0.40	mg/Kg	1	10/25/18	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	5.66	0.40	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	10/25/18	EK	SW6010C
Percent Solid	87		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	10/27/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/27/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	10/27/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	380	ug/Kg	10	10/26/18	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	119		%	10	10/26/18	AW	30 - 150 %
% TCMX	84		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDE	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
4,4' -DDT	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Alachlor	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	10/30/18	CW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Chlordane	ND	38	ug/Kg	2	10/30/18	CW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Endrin	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	10/30/18	CW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	10/30/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/30/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	85		%	2	10/30/18	CW	30 - 150 %
% TCMX	67		%	2	10/30/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Anthracene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Chrysene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Fluoranthene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Fluorene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-20

Phoenix I.D.: CB81458

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Pyrene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	10/29/18	AW	30 - 130 %
% Nitrobenzene-d5	67		%	1	10/29/18	AW	30 - 130 %
% Terphenyl-d14	79		%	1	10/29/18	AW	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	10:30
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81459

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	10/25/18	EK	SW6010C
Arsenic	3.33	0.69	mg/Kg	1	10/25/18	EK	SW6010C
Barium	62.0	0.34	mg/Kg	1	10/25/18	EK	SW6010C
Cadmium	0.56	0.34	mg/Kg	1	10/25/18	EK	SW6010C
Chromium	21.1	0.34	mg/Kg	1	10/25/18	EK	SW6010C
Mercury	0.03	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	18.5	0.34	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	10/25/18	EK	SW6010C
Percent Solid	89		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	93	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	93	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	1900	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	93	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	93	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	43		%	10	10/26/18	CW	30 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-21

Phoenix I.D.: CB81459

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	107		%	10	10/26/18	AW	30 - 150 %
% TCMX	88		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	15	7.4	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDT	22	7.4	ug/Kg	2	10/26/18	CW	SW8081B
a-BHC	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	3.7	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	37	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	3.7	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	7.4	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	37	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	58		%	2	10/26/18	CW	30 - 150 %
% TCMX	76		%	2	10/26/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-21

Phoenix I.D.: CB81459

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	10/28/18	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromoethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichlorobenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichlorobenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
1,4-Dichlorobenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
2-Chlorotoluene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	10/28/18	JLI	SW8260
2-Isopropyltoluene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
4-Chlorotoluene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	10/28/18	JLI	SW8260
Acetone	ND	220	ug/Kg	1	10/28/18	JLI	SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Benzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Bromobenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Bromochloromethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Bromoform	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Bromomethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Chloroethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Chloroform	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Chloromethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	10/28/18	JLI	SW8260
Dibromomethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Hexachlorobutadiene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Isopropylbenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
m&p-Xylene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	10/28/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.7	ug/Kg	1	10/28/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	8.7	ug/Kg	1	10/28/18	JLI	SW8260
Naphthalene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
n-Butylbenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
n-Propylbenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
o-Xylene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
p-Isopropyltoluene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
sec-Butylbenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Styrene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
tert-Butylbenzene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Tetrachloroethene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.7	ug/Kg	1	10/28/18	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.7	ug/Kg	1	10/28/18	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorotrifluoroethane	ND	8.7	ug/Kg	1	10/28/18	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	10/28/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	91		%	1	10/28/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	10/28/18	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	10/28/18	JLI	70 - 130 %
% Toluene-d8	86		%	1	10/28/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Chrysene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Fluoranthene	280	260	ug/Kg	1	10/27/18	AW	SW8270D
Fluorene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Pyrene	260	260	ug/Kg	1	10/27/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	10/27/18	AW	30 - 130 %
% Nitrobenzene-d5	62		%	1	10/27/18	AW	30 - 130 %
% Terphenyl-d14	62		%	1	10/27/18	AW	30 - 130 %
Field Extraction	Completed				10/24/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	10:50
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81460

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	10/25/18	EK	SW6010C
Arsenic	4.98	0.84	mg/Kg	1	10/25/18	EK	SW6010C
Barium	83.2	0.42	mg/Kg	1	10/25/18	EK	SW6010C
Cadmium	0.81	0.42	mg/Kg	1	10/25/18	EK	SW6010C
Chromium	33.9	0.42	mg/Kg	1	10/25/18	EK	SW6010C
Mercury	0.04	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	15.9	0.42	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	10/25/18	EK	SW6010C
Percent Solid	80		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	210	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	2100	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	210	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	210	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	49		%	10	10/26/18	CW	30 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-22

Phoenix I.D.: CB81460

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1254	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	410	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	89		%	10	10/26/18	AW	30 - 150 %
% TCMX	72		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	27	8.2	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDT	37	8.2	ug/Kg	2	10/26/18	CW	SW8081B
a-BHC	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.1	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	41	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	81		%	2	10/26/18	CW	30 - 150 %
% TCMX	63		%	2	10/26/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,1,1-Trichloroethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-22

Phoenix I.D.: CB81460

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	10/28/18	JLI	SW8260
1,1,2-Trichloroethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloropropene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichloropropane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromoethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichlorobenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloroethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloropropane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichlorobenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichloropropane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
1,4-Dichlorobenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
2,2-Dichloropropane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
2-Chlorotoluene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
2-Hexanone	ND	33	ug/Kg	1	10/28/18	JLI	SW8260
2-Isopropyltoluene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
4-Chlorotoluene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
4-Methyl-2-pentanone	ND	33	ug/Kg	1	10/28/18	JLI	SW8260
Acetone	ND	330	ug/Kg	1	10/28/18	JLI	SW8260
Acrylonitrile	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Benzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Bromobenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Bromochloromethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Bromodichloromethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Bromoform	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Bromomethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Carbon Disulfide	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Carbon tetrachloride	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Chlorobenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Chloroethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Chloroform	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Chloromethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Dibromochloromethane	ND	3.9	ug/Kg	1	10/28/18	JLI	SW8260
Dibromomethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Dichlorodifluoromethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Ethylbenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Hexachlorobutadiene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Isopropylbenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
m&p-Xylene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Methyl Ethyl Ketone	ND	39	ug/Kg	1	10/28/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	10/28/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	13	ug/Kg	1	10/28/18	JLI	SW8260
Naphthalene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
n-Butylbenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
n-Propylbenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
o-Xylene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
p-Isopropyltoluene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
sec-Butylbenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Styrene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
tert-Butylbenzene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Tetrachloroethene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	10/28/18	JLI	SW8260
Toluene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Total Xylenes	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	10/28/18	JLI	SW8260
Trichloroethene	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorofluoromethane	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorotrifluoroethane	ND	13	ug/Kg	1	10/28/18	JLI	SW8260
Vinyl chloride	ND	6.5	ug/Kg	1	10/28/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	10/28/18	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	10/28/18	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	10/28/18	JLI	70 - 130 %
% Toluene-d8	86		%	1	10/28/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Acenaphthene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Anthracene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Chrysene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Fluoranthene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Fluorene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Naphthalene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Phenanthrene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
Pyrene	ND	280	ug/Kg	1	10/29/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	10/29/18	AW	30 - 130 %
% Nitrobenzene-d5	64		%	1	10/29/18	AW	30 - 130 %
% Terphenyl-d14	71		%	1	10/29/18	AW	30 - 130 %
Field Extraction	Completed				10/24/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	11:15
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81461

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	10/25/18	EK	SW6010C
Arsenic	3.72	0.72	mg/Kg	1	10/25/18	EK	SW6010C
Barium	69.0	0.36	mg/Kg	1	10/25/18	EK	SW6010C
Cadmium	0.60	0.36	mg/Kg	1	10/25/18	EK	SW6010C
Chromium	22.1	0.36	mg/Kg	1	10/25/18	EK	SW6010C
Mercury	0.05	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	18.0	0.36	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	10/25/18	EK	SW6010C
Percent Solid	87		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	95	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	95	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	1900	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	95	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	95	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	43		%	10	10/26/18	CW	30 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-23

Phoenix I.D.: CB81461

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	290	mg/Kg	5	10/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	10/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	5	10/30/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1254	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	104		%	10	10/26/18	AW	30 - 150 %
% TCMX	87		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	13	7.5	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDT	17	7.5	ug/Kg	2	10/26/18	CW	SW8081B
a-BHC	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	38	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	7.5	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	127		%	2	10/26/18	CW	30 - 150 %
% TCMX	67		%	2	10/26/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-23

Phoenix I.D.: CB81461

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	10/28/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromoethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
2-Hexanone	ND	29	ug/Kg	1	10/28/18	JLI	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	1	10/28/18	JLI	SW8260
Acetone	ND	290	ug/Kg	1	10/28/18	JLI	SW8260
Acrylonitrile	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Benzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromobenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromochloromethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromoform	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Bromomethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Chlorobenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Chloroethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Chloroform	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Chloromethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	1	10/28/18	JLI	SW8260
Dibromomethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Ethylbenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
m&p-Xylene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	1	10/28/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	10/28/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	12	ug/Kg	1	10/28/18	JLI	SW8260
Naphthalene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
o-Xylene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Styrene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	10/28/18	JLI	SW8260
Toluene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Total Xylenes	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	10/28/18	JLI	SW8260
Trichloroethene	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorotrifluoroethane	ND	12	ug/Kg	1	10/28/18	JLI	SW8260
Vinyl chloride	ND	5.8	ug/Kg	1	10/28/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	10/28/18	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	10/28/18	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	10/28/18	JLI	70 - 130 %
% Toluene-d8	87		%	1	10/28/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Chrysene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Fluoranthene	310	260	ug/Kg	1	10/27/18	AW	SW8270D
Fluorene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Pyrene	280	260	ug/Kg	1	10/27/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	55		%	1	10/27/18	AW	30 - 130 %
% Nitrobenzene-d5	57		%	1	10/27/18	AW	30 - 130 %
% Terphenyl-d14	52		%	1	10/27/18	AW	30 - 130 %
Field Extraction	Completed				10/24/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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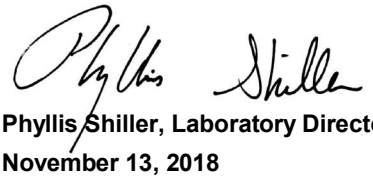

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	11:37
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81462

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	10/25/18	EK	SW6010C
Arsenic	3.07	0.74	mg/Kg	1	10/25/18	EK	SW6010C
Barium	39.0	0.37	mg/Kg	1	10/25/18	EK	SW6010C
Cadmium	0.54	0.37	mg/Kg	1	10/25/18	EK	SW6010C
Chromium	17.4	0.37	mg/Kg	1	10/25/18	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	6.34	0.37	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	10/25/18	EK	SW6010C
Percent Solid	90		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	92	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	92	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	180	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	1800	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	92	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	92	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	180	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	180	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	50		%	10	10/26/18	CW	30 - 150 %

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-24

Phoenix I.D.: CB81462

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1254	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	80		%	10	10/26/18	AW	30 - 150 %
% TCMX	66		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDE	8.6	7.2	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDT	10	7.2	ug/Kg	2	10/29/18	CW	SW8081B
a-BHC	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	10/29/18	CW	SW8081B
b-BHC	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	10/29/18	CW	SW8081B
d-BHC	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endrin	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	10/29/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/29/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	70		%	2	10/29/18	CW	30 - 150 %
% TCMX	56		%	2	10/29/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,1,1-Trichloroethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-24

Phoenix I.D.: CB81462

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,1,2-Trichloroethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloropropene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichloropropane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichlorobenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloroethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloropropane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichlorobenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichloropropane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
1,4-Dichlorobenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
2,2-Dichloropropane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
2-Chlorotoluene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
2-Hexanone	ND	42	ug/Kg	1	10/28/18	JLI	SW8260
2-Isopropyltoluene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
4-Chlorotoluene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
4-Methyl-2-pentanone	ND	42	ug/Kg	1	10/28/18	JLI	SW8260
Acetone	ND	420	ug/Kg	1	10/28/18	JLI	SW8260
Acrylonitrile	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Benzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromobenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromochloromethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromodichloromethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromoform	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Bromomethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Carbon Disulfide	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Carbon tetrachloride	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Chlorobenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Chloroethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Chloroform	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Chloromethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Dibromochloromethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Dibromomethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Dichlorodifluoromethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Ethylbenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Hexachlorobutadiene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Isopropylbenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
m&p-Xylene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Methyl Ethyl Ketone	ND	50	ug/Kg	1	10/28/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	17	ug/Kg	1	10/28/18	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	17	ug/Kg	1	10/28/18	JLI	SW8260
Naphthalene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
n-Butylbenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
n-Propylbenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
o-Xylene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
p-Isopropyltoluene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
sec-Butylbenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Styrene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
tert-Butylbenzene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Tetrachloroethene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	17	ug/Kg	1	10/28/18	JLI	SW8260
Toluene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Total Xylenes	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	17	ug/Kg	1	10/28/18	JLI	SW8260
Trichloroethene	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorofluoromethane	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorotrifluoroethane	ND	17	ug/Kg	1	10/28/18	JLI	SW8260
Vinyl chloride	ND	8.4	ug/Kg	1	10/28/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	10/28/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	10/28/18	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	10/28/18	JLI	70 - 130 %
% Toluene-d8	88		%	1	10/28/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Chrysene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Fluorene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
Pyrene	ND	260	ug/Kg	1	10/27/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	10/27/18	AW	30 - 130 %
% Nitrobenzene-d5	65		%	1	10/27/18	AW	30 - 130 %
% Terphenyl-d14	64		%	1	10/27/18	AW	30 - 130 %
Field Extraction	Completed				10/24/18		SW5035A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
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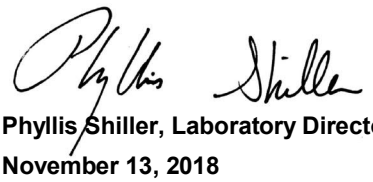

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	11:48
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81463

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	10/26/18	EK	SW6010C
Arsenic	5.77	0.82	mg/Kg	1	10/26/18	EK	SW6010C
Barium	57.4	0.41	mg/Kg	1	10/26/18	EK	SW6010C
Cadmium	0.59	0.41	mg/Kg	1	10/26/18	EK	SW6010C
Chromium	17.9	0.41	mg/Kg	1	10/26/18	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	33.8	0.41	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	86		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	380	ug/Kg	10	10/26/18	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	380	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	10/26/18	AW	30 - 150 %
% TCMX	78		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDE	10	7.6	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDT	11	7.6	ug/Kg	2	10/29/18	CW	SW8081B
a-BHC	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Alachlor	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	10/29/18	CW	SW8081B
b-BHC	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Chlordane	ND	38	ug/Kg	2	10/29/18	CW	SW8081B
d-BHC	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan I	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan II	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan sulfate	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Endrin	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Endrin aldehyde	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Endrin ketone	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor epoxide	ND	7.6	ug/Kg	2	10/29/18	CW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	10/29/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/29/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	80		%	2	10/29/18	CW	30 - 150 %
% TCMX	66		%	2	10/29/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Anthracene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Chrysene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Fluoranthene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Fluorene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-25

Phoenix I.D.: CB81463

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
Pyrene	ND	270	ug/Kg	1	10/29/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	10/29/18	AW	30 - 130 %
% Nitrobenzene-d5	77		%	1	10/29/18	AW	30 - 130 %
% Terphenyl-d14	79		%	1	10/29/18	AW	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	12:05
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81464

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	10/26/18	EK	SW6010C
Arsenic	2.84	0.69	mg/Kg	1	10/26/18	EK	SW6010C
Barium	23.2	0.34	mg/Kg	1	10/26/18	EK	SW6010C
Cadmium	0.47	0.34	mg/Kg	1	10/26/18	EK	SW6010C
Chromium	11.3	0.34	mg/Kg	1	10/26/18	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/29/18	RS	SW7471B
Lead	4.24	0.34	mg/Kg	1	10/26/18	CPP	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	91		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/25/18	AA/V	SW3545A
Soil Extraction for Pesticide	Completed				10/25/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/25/18	MJ/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Mercury Digestion	Completed				10/29/18	EV/EV/Q	SW7471B
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1221	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1232	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1242	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1248	ND	360	ug/Kg	10	10/26/18	AW	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1260	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1262	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
PCB-1268	ND	360	ug/Kg	10	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	111		%	10	10/26/18	AW	30 - 150 %
% TCMX	89		%	10	10/26/18	AW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDE	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDT	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
a-BHC	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	10/29/18	CW	SW8081B
b-BHC	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	10/29/18	CW	SW8081B
d-BHC	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endrin	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	10/29/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	10/29/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/29/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	78		%	2	10/29/18	CW	30 - 150 %
% TCMX	65		%	2	10/29/18	CW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Acenaphthene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Anthracene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Chrysene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Fluoranthene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Fluorene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Naphthalene	ND	250	ug/Kg	1	10/26/18	F	SW8270D

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-26

Phoenix I.D.: CB81464

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
Pyrene	ND	250	ug/Kg	1	10/26/18	F	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	10/26/18	F	30 - 130 %
% Nitrobenzene-d5	53		%	1	10/26/18	F	30 - 130 %
% Terphenyl-d14	59		%	1	10/26/18	F	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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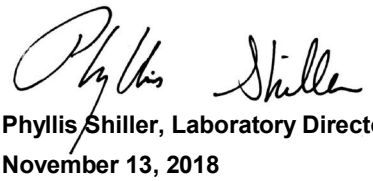

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	12:55
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81465

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.75	0.76	mg/Kg	1	10/25/18	EK	SW6010C
Lead	23.6	0.38	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	86		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/25/18	MB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	96	ug/Kg	10	10/26/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	96	ug/Kg	10	10/26/18	CW	SW8151A
2,4-D	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
2,4-DB	ND	1900	ug/Kg	10	10/26/18	CW	SW8151A
Dalapon	ND	96	ug/Kg	10	10/26/18	CW	SW8151A
Dicamba	ND	96	ug/Kg	10	10/26/18	CW	SW8151A
Dichloroprop	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
Dinoseb	ND	190	ug/Kg	10	10/26/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	48		%	10	10/26/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	92	38	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	100	38	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	3.8	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	61	38	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-27

Phoenix I.D.: CB81465

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	3.8	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	13	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	38	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	85		%	2	10/26/18	CW	30 - 150 %
% TCMX	60		%	2	10/26/18	CW	30 - 150 %
Client MS/MSD	Completed				10/26/18		

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

Comments:

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

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	12:58
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81467

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.70	0.82	mg/Kg	1	10/26/18	EK	SW6010C
Lead	30.8	0.41	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	81		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
4,4' -DDE	100	80	ug/Kg	20	10/29/18	PS	SW8081B
4,4' -DDT	150	80	ug/Kg	20	10/29/18	PS	SW8081B
a-BHC	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Alachlor	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Aldrin	ND	4.0	ug/Kg	2	10/26/18	PS	SW8081B
b-BHC	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Chlordane	ND	66	ug/Kg	2	10/26/18	PS	SW8081B
d-BHC	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/26/18	PS	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Endrin	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/26/18	PS	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	10/26/18	PS	SW8081B
Heptachlor epoxide	ND	20	ug/Kg	2	10/26/18	PS	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/26/18	PS	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/26/18	PS	SW8081B

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-29

Phoenix I.D.: CB81467

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	57		%	2	10/26/18	PS	30 - 150 %
% TCMX	72		%	2	10/26/18	PS	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:00
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81468

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-30

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.55	0.79	mg/Kg	1	10/26/18	EK	SW6010C
Lead	32.7	0.40	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	81		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2000	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	49		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	66	40	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	72	40	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	40	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-30

Phoenix I.D.: CB81468

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	66		%	2	10/26/18	CW	30 - 150 %
% TCMX	56		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:03
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81470

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-32

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.16	0.80	mg/Kg	1	10/26/18	EK	SW6010C
Lead	25.3	0.40	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	80		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	56	41	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	71	41	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.1	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	41	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-32

Phoenix I.D.: CB81470

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	89		%	2	10/26/18	CW	30 - 150 %
% TCMX	75		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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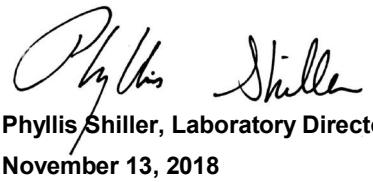

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:05
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81471

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-33

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.65	0.89	mg/Kg	1	10/26/18	EK	SW6010C
Lead	37.7	0.45	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	79		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/25/18	MB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2100	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	45		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDE	160	84	ug/Kg	20	10/30/18	CW	SW8081B
4,4' -DDT	200	84	ug/Kg	20	10/30/18	CW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Alachlor	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/29/18	CW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Chlordane	51	42	ug/Kg	2	10/29/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-33

Phoenix I.D.: CB81471

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endrin	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/29/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/29/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	87		%	2	10/29/18	CW	30 - 150 %
% TCMX	72		%	2	10/29/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:06
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81472

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-34

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	77		%		11/06/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				11/06/18	AA/V	SW3545A
Pesticides							
4,4' -DDD	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
4,4' -DDE	72	43	ug/Kg	10	11/09/18	CW	SW8081B
4,4' -DDT	90	43	ug/Kg	10	11/09/18	CW	SW8081B
a-BHC	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	11/07/18	CW	SW8081B
b-BHC	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Chlordane	ND	43	ug/Kg	2	11/07/18	CW	SW8081B
d-BHC	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Endrin	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	11/07/18	CW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Heptachlor epoxide	ND	8.6	ug/Kg	2	11/07/18	CW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	11/07/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	11/07/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	80		%	2	11/07/18	CW	30 - 150 %
% TCMX	87		%	2	11/07/18	CW	30 - 150 %

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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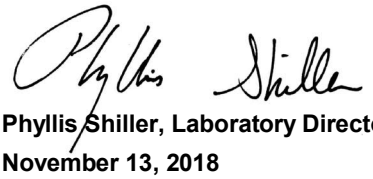

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:08
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81473

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-35

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.81	0.73	mg/Kg	1	10/26/18	EK	SW6010C
Lead	33.6	0.36	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	84		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	71	7.7	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDT	79	7.7	ug/Kg	2	10/26/18	CW	SW8081B
a-BHC	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	3.9	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	39	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	3.9	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.5	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	7.7	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	39	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	150	ug/Kg	2	10/26/18	CW	SW8081B

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-35

Phoenix I.D.: CB81473

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	116		%	2	10/26/18	CW	30 - 150 %
% TCMX	73		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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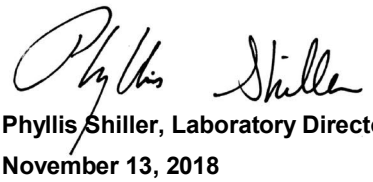

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:10
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81474

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-36

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.60	0.74	mg/Kg	1	10/26/18	EK	SW6010C
Lead	19.4	0.37	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	83		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/25/18	MB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2000	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	47		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDE	65	8.0	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDT	100	80	ug/Kg	20	10/30/18	CW	SW8081B
a-BHC	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Alachlor	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	10/29/18	CW	SW8081B
b-BHC	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Chlordane	43	40	ug/Kg	2	10/29/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-36

Phoenix I.D.: CB81474

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan I	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan II	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan sulfate	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Endrin	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Endrin aldehyde	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Endrin ketone	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor	ND	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor epoxide	9.1	8.0	ug/Kg	2	10/29/18	CW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/29/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/29/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	81		%	2	10/29/18	CW	30 - 150 %
% TCMX	62		%	2	10/29/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:13
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81476

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-38

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	9.74	0.79	mg/Kg	1	10/26/18	EK	SW6010C
Lead	28.9	0.40	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	80		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	83	40	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	120	40	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.0	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	59	40	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.0	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	19	8.1	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	40	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-38

Phoenix I.D.: CB81476

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	105		%	2	10/26/18	CW	30 - 150 %
% TCMX	68		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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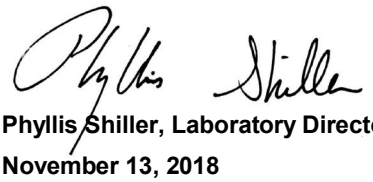

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:15
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81477

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-39

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	7.06	0.83	mg/Kg	1	10/26/18	EK	SW6010C
Lead	49.9	0.42	mg/Kg	1	10/26/18	CPP	SW6010C
Percent Solid	77		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2100	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	48		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	140	85	ug/Kg	20	10/29/18	CW	SW8081B
4,4' -DDT	150	85	ug/Kg	20	10/29/18	CW	SW8081B
a-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	43	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-39

Phoenix I.D.: CB81477

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	76		%	2	10/26/18	CW	30 - 150 %
% TCMX	72		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:16
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81478

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-40

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		11/06/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				11/06/18	AA/V	SW3545A
Pesticides							
4,4' -DDD	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
4,4' -DDE	130	83	ug/Kg	20	11/08/18	CW	SW8081B
4,4' -DDT	130	83	ug/Kg	20	11/08/18	CW	SW8081B
a-BHC	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	11/07/18	CW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	11/07/18	CW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Endrin	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	11/07/18	CW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	11/07/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	11/07/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	11/07/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	75		%	2	11/07/18	CW	30 - 150 %
% TCMX	74		%	2	11/07/18	CW	30 - 150 %

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:18
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81479

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-41

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	7.31	0.81	mg/Kg	1	10/26/18	EK	SW6010C
Lead	42.8	0.41	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	78		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	86	42	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	98	42	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-41

Phoenix I.D.: CB81479

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	98		%	2	10/26/18	CW	30 - 150 %
% TCMX	66		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:20
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81480

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-42

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.14	0.88	mg/Kg	1	10/26/18	EK	SW6010C
Lead	34.9	0.44	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	78		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2100	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	47		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	72	42	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	80	42	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-42

Phoenix I.D.: CB81480

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	101		%	2	10/26/18	CW	30 - 150 %
% TCMX	63		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:21
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81482

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-44

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.25	0.84	mg/Kg	1	10/26/18	EK	SW6010C
Lead	34.8	0.42	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	77		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2200	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	46		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	84	42	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	96	42	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-44

Phoenix I.D.: CB81482

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	78		%	2	10/26/18	CW	30 - 150 %
% TCMX	79		%	2	10/26/18	CW	30 - 150 %

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

Comments:

DUPLICATE INCLUDED

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 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:24
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81483

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-45

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.94	0.83	mg/Kg	1	10/26/18	EK	SW6010C
Lead	28.6	0.42	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	80		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	52	42	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	76	42	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.3	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/26/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	92		%	2	10/26/18	CW	30 - 150 %
% TCMX	66		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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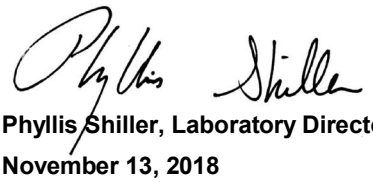

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:28
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81484

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-46

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.54	0.81	mg/Kg	1	10/26/18	EK	SW6010C
Lead	26.2	0.41	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	81		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/24/18	Z/C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2000	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	47		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
4,4' -DDE	59	41	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	94	41	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Aldrin	ND	4.1	ug/Kg	2	10/27/18	CW	SW8081B
b-BHC	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Chlordane	ND	41	ug/Kg	2	10/27/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-46

Phoenix I.D.: CB81484

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endrin	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	10/27/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/27/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	75		%	2	10/27/18	CW	30 - 150 %
% TCMX	73		%	2	10/27/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:32
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81486

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-48

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.85	0.78	mg/Kg	1	10/26/18	EK	SW6010C
Lead	30.6	0.39	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	79		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
4,4' -DDE	55	42	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	84	42	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Alachlor	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/27/18	CW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/27/18	CW	SW8081B
d-BHC	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Endrin	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor epoxide	14	8.4	ug/Kg	2	10/27/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/27/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/27/18	CW	SW8081B

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-48

Phoenix I.D.: CB81486

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	76		%	2	10/27/18	CW	30 - 150 %
% TCMX	75		%	2	10/27/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:35
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81487

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-49

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.75	0.81	mg/Kg	1	10/26/18	EK	SW6010C
Lead	25.6	0.41	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	81		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/25/18	C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2000	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	100	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	200	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	53		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
4,4' -DDE	52	8.2	ug/Kg	2	10/27/18	CW	SW8081B
4,4' -DDT	74	8.2	ug/Kg	2	10/27/18	CW	SW8081B
a-BHC	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Alachlor	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Aldrin	ND	4.1	ug/Kg	2	10/27/18	CW	SW8081B
b-BHC	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Chlordane	ND	41	ug/Kg	2	10/27/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-49

Phoenix I.D.: CB81487

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Dieldrin	ND	4.1	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan I	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan II	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endosulfan sulfate	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endrin	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endrin aldehyde	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Endrin ketone	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
g-BHC	ND	1.6	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Heptachlor epoxide	ND	8.2	ug/Kg	2	10/27/18	CW	SW8081B
Methoxychlor	ND	41	ug/Kg	2	10/27/18	CW	SW8081B
Toxaphene	ND	160	ug/Kg	2	10/27/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	75		%	2	10/27/18	CW	30 - 150 %
% TCMX	79		%	2	10/27/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:39
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81489

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-51

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	7.61	0.77	mg/Kg	1	10/26/18	EK	SW6010C
Lead	49.1	0.39	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	76		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	13	8.7	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDE	210	43	ug/Kg	10	10/26/18	CW	SW8081B
4,4' -DDT	210	43	ug/Kg	10	10/26/18	CW	SW8081B
a-BHC	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Alachlor	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	10/29/18	CW	SW8081B
b-BHC	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Chlordane	ND	43	ug/Kg	2	10/29/18	CW	SW8081B
d-BHC	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan I	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan II	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan sulfate	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Endrin	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Endrin aldehyde	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Endrin ketone	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor epoxide	ND	8.7	ug/Kg	2	10/29/18	CW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	10/29/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/29/18	CW	SW8081B

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-51

Phoenix I.D.: CB81489

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	92		%	2	10/29/18	CW	30 - 150 %
% TCMX	84		%	2	10/29/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:41
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81490

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-52

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	7.27	0.89	mg/Kg	1	10/26/18	EK	SW6010C
Lead	43.8	0.45	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	78		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/25/18	C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2100	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	210	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	55		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	130	42	ug/Kg	10	10/29/18	CW	SW8081B
4,4' -DDT	130	42	ug/Kg	10	10/29/18	CW	SW8081B
a-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/26/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-52

Phoenix I.D.: CB81490

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/26/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	75		%	2	10/26/18	CW	30 - 150 %
% TCMX	67		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:42
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81491

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-53

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	78		%		11/06/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				11/06/18	AA/V	SW3545A
Pesticides							
4,4' -DDD	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
4,4' -DDE	110	85	ug/Kg	20	11/08/18	CW	SW8081B
4,4' -DDT	92	17	ug/Kg	20	11/08/18	CW	SW8081B
a-BHC	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Alachlor	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	11/07/18	CW	SW8081B
b-BHC	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	11/07/18	CW	SW8081B
d-BHC	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan I	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan II	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Endosulfan sulfate	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Endrin	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Endrin aldehyde	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Endrin ketone	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	11/07/18	CW	SW8081B
Heptachlor	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Heptachlor epoxide	ND	8.5	ug/Kg	2	11/07/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	11/07/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	11/07/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	59		%	2	11/07/18	CW	30 - 150 %
% TCMX	67		%	2	11/07/18	CW	30 - 150 %

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

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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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:44
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81492

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-54

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.02	0.87	mg/Kg	1	10/26/18	EK	SW6010C
Lead	47.6	0.43	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	76		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	13	8.7	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDT	12	8.7	ug/Kg	2	10/26/18	CW	SW8081B
a-BHC	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.4	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	44	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.4	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.7	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	44	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/26/18	CW	SW8081B

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-54

Phoenix I.D.: CB81492

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	72		%	2	10/26/18	CW	30 - 150 %
% TCMX	61		%	2	10/26/18	CW	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 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:48
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81493

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-55

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	7.85	0.83	mg/Kg	1	10/26/18	EK	SW6010C
Lead	48.1	0.42	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	77		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/25/18	MB/V	SW3545A
Soil Extraction for Herbicide	Completed				10/25/18	C/D	SW8151A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2200	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	55		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
4,4' -DDE	87	42	ug/Kg	10	10/31/18	CW	SW8081B
4,4' -DDT	82	42	ug/Kg	10	10/31/18	CW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Alachlor	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/29/18	CW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Chlordane	51	42	ug/Kg	2	10/29/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-55

Phoenix I.D.: CB81493

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endrin	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	10/29/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/29/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/29/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	71		%	2	10/29/18	CW	30 - 150 %
% TCMX	59		%	2	10/29/18	CW	30 - 150 %

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

Comments:

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

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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	13:52
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81495

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-57

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.43	0.80	mg/Kg	1	10/26/18	EK	SW6010C
Lead	30.2	0.40	mg/Kg	1	10/26/18	EK	SW6010C
Percent Solid	79		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/24/18	BB/V	SW3545A
Total Metals Digest	Completed				10/24/18	B/AG/BF	SW3050B
Pesticides							
4,4' -DDD	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDE	44	8.4	ug/Kg	2	10/26/18	CW	SW8081B
4,4' -DDT	57	8.4	ug/Kg	2	10/26/18	CW	SW8081B
a-BHC	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Alachlor	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Aldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
b-BHC	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Chlordane	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
d-BHC	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Dieldrin	ND	4.2	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan I	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan II	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endosulfan sulfate	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin aldehyde	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Endrin ketone	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Heptachlor epoxide	ND	8.4	ug/Kg	2	10/26/18	CW	SW8081B
Methoxychlor	ND	42	ug/Kg	2	10/26/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/26/18	CW	SW8081B

Ver 2

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-57

Phoenix I.D.: CB81495

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% DCBP	81		%	2	10/26/18	CW	30 - 150 %
% TCMX	69		%	2	10/26/18	CW	30 - 150 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	14:45
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81496

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-58

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	200	ug/Kg	50	10/28/18	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	50	10/28/18	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	50	10/28/18	JLI	SW8260
1,2-Dibromoethane	ND	25	ug/Kg	50	10/28/18	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,2-Dichloroethane	ND	200	ug/Kg	50	10/28/18	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	10/28/18	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	10/28/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-58

Phoenix I.D.: CB81496

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	10/28/18	JLI	SW8260
Acrylonitrile	ND	100	ug/Kg	50	10/28/18	JLI	SW8260
Benzene	ND	200	ug/Kg	50	10/28/18	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Bromodichloromethane	ND	210	ug/Kg	50	10/28/18	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	100	ug/Kg	50	10/28/18	JLI	SW8260
Dibromochloromethane	ND	100	ug/Kg	50	10/28/18	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	10/28/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	10/28/18	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Styrene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	10/28/18	JLI	SW8260
Toluene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	100	ug/Kg	50	10/28/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	10/28/18	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	10/28/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	50	10/28/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	50	10/28/18	JLI	70 - 130 %
% Dibromofluoromethane	101		%	50	10/28/18	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	86		%	50	10/28/18	JLI	70 - 130 %
Field Extraction	Completed				10/24/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

If there are any questions regarding this data, please call Phoenix Client Services.
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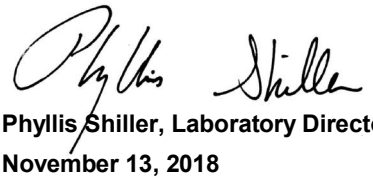

Phyllis Shiller, Laboratory Director
November 13, 2018
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

November 13, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	SF	10/24/18	14:50
Location Code:	F&O	Received by:	CP	10/24/18	15:48
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB81454
Phoenix ID: CB81497

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-59

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	10/28/18	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	10/28/18	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	10/28/18	JLI	SW8260

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-59

Phoenix I.D.: CB81497

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	10/28/18	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	10/28/18	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	10/28/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	10/28/18	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	10/28/18	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	10/28/18	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	10/28/18	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
Trichlorotrifluoroethane	ND	10	ug/Kg	1	10/28/18	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	10/28/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	10/28/18	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	10/28/18	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	10/28/18	JLI	70 - 130 %

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181024-59

Phoenix I.D.: CB81497

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	85		%	1	10/28/18	JLI	70 - 130 %
Field Extraction	Completed				10/24/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 13, 2018
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

November 13, 2018

QA/QC Data

SDG I.D.: GCB81454

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 453703 (mg/kg), QC Sample No: CB81458 (CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464)														
Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	111	101	9.4	95.0			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 453345 (mg/kg), QC Sample No: CB81465 (CB81454, CB81455, CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464, CB81465, CB81467, CB81468, CB81470, CB81471, CB81473, CB81474, CB81476, CB81477)														
ICP Metals - Soil														
Arsenic	BRL	0.67	4.75	4.91	3.30	96.3			92.9			75 - 125	30	
Barium	BRL	0.33	68.1	67.3	1.20	107			101			75 - 125	30	
Cadmium	BRL	0.33	0.90	0.87	NC	100			98.0			75 - 125	30	
Chromium	BRL	0.33	25.9	26.2	1.20	104			101			75 - 125	30	
Lead	BRL	0.37	23.6	23.2	1.70	106			104			75 - 125	30	
Selenium	BRL	1.3	<1.5	<1.4	NC	79.1			71.6			75 - 125	30	m
Silver	BRL	0.33	<0.38	<0.36	NC	96.0			94.8			75 - 125	30	
QA/QC Batch 453360 (mg/kg), QC Sample No: CB81479 (CB81479, CB81480, CB81482, CB81483, CB81484, CB81486, CB81487, CB81489, CB81490, CB81492, CB81493, CB81495)														
ICP Metals - Soil														
Arsenic	BRL	0.67	7.31	7.03	3.90	98.3			92.7			75 - 125	30	
Lead	BRL	0.33	42.8	43.3	1.20	108			104			75 - 125	30	

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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QA/QC Report

November 13, 2018

QA/QC Data

SDG I.D.: GCB81454

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 453798 (mg/Kg), QC Sample No: CB81458 (CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	66	70	5.9	80	75	6.5	60 - 120	30
% n-Pentacosane	57	%	57	62	8.4	69	67	2.9	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 453364 (ug/Kg), QC Sample No: CB81178 10X (CB81456)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	83	60	69	14.0	71			40 - 140	30
2,4,5-TP (Silvex)	ND	83	52	60	14.3	64			40 - 140	30
2,4-D	ND	170	53	59	10.7	49			40 - 140	30
2,4-DB	ND	1700	54	62	13.8	55			40 - 140	30
Dalapon	ND	83	31	26	17.5	37			40 - 140	30
Dicamba	ND	83	62	67	7.8	78			40 - 140	30
Dichloroprop	ND	170	59	65	9.7	71			40 - 140	30
Dinoseb	ND	170	50	58	14.8	62			40 - 140	30
% DCAA (Surrogate Rec)	37	%	40	44	9.5	47			30 - 150	30
Comment:										
The QC for this batch consists of a Blank, LCS, LCSD, and MS.										
QA/QC Batch 453387 (ug/Kg), QC Sample No: CB81465 10X (CB81457, CB81459, CB81460, CB81461, CB81462, CB81465, CB81468, CB81471, CB81474, CB81477, CB81480, CB81482, CB81484)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	83	72	80	10.5	76	75	1.3	40 - 140	30
2,4,5-TP (Silvex)	ND	83	61	71	15.2	67	66	1.5	40 - 140	30
2,4-D	ND	170	64	71	10.4	65	67	3.0	40 - 140	30
2,4-DB	ND	1700	60	76	23.5	59	60	1.7	40 - 140	30
Dalapon	ND	83	37	37	0.0	40	41	2.5	40 - 140	30
Dicamba	ND	83	72	78	8.0	65	72	10.2	40 - 140	30
Dichloroprop	ND	170	71	76	6.8	67	71	5.8	40 - 140	30
Dinoseb	ND	170	55	70	24.0	64	66	3.1	40 - 140	30
% DCAA (Surrogate Rec)	48	%	47	51	8.2	45	48	6.5	30 - 150	30
QA/QC Batch 453514 (ug/Kg), QC Sample No: CB82584 10X (CB81487, CB81490, CB81493)										
Chlorinated Herbicides - Soil										
2,4,5-T	ND	83	73	90	20.9	101	91	10.4	40 - 140	30
2,4,5-TP (Silvex)	ND	83	65	81	21.9	70	81	14.6	40 - 140	30
2,4-D	ND	170	63	80	23.8	66	71	7.3	40 - 140	30
2,4-DB	ND	1700	69	86	21.9	87	94	7.7	40 - 140	30
Dalapon	ND	83	34	44	25.6	39	50	24.7	40 - 140	30
Dicamba	ND	83	72	87	18.9	74	86	15.0	40 - 140	30
Dichloroprop	ND	170	72	86	17.7	83	86	3.6	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Dinoseb	ND	170	61	73	17.9	62	85	31.3	40 - 140	30	r
% DCAA (Surrogate Rec)	47	%	47	57	19.2	49	57	15.1	30 - 150	30	
QA/QC Batch 453720 (ug/Kg), QC Sample No: CB82560 2X (CB81454, CB81455)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	33	79	84	6.1	78	76	2.6	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	95	104	9.0	93	99	6.3	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	99	%	110	120	8.7	102	112	9.3	30 - 150	30	
% TCMX (Surrogate Rec)	86	%	93	98	5.2	87	87	0.0	30 - 150	30	
QA/QC Batch 453511 (ug/Kg), QC Sample No: CB82584 2X (CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	33	67	81	18.9	80	72	10.5	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	88	98	10.8	93	81	13.8	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	86	%	123	113	8.5	102	87	15.9	30 - 150	30	
% TCMX (Surrogate Rec)	84	%	84	91	8.0	80	69	14.8	30 - 150	30	
QA/QC Batch 453513 (ug/Kg), QC Sample No: CB81173 2X (CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	76	84	10.0	56	58	3.5	40 - 140	30	
4,4' -DDE	ND	1.7	74	83	11.5	54	55	1.8	40 - 140	30	
4,4' -DDT	ND	1.7	75	83	10.1	56	58	3.5	40 - 140	30	
a-BHC	ND	1.0	77	82	6.3	49	52	5.9	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	75	82	8.9	51	55	7.5	40 - 140	30	
b-BHC	ND	1.0	98	89	9.6	58	63	8.3	40 - 140	30	
Chlordane	ND	33	74	81	9.0	55	57	3.6	40 - 140	30	
d-BHC	ND	3.3	74	86	15.0	54	59	8.8	40 - 140	30	
Dieldrin	ND	1.0	70	78	10.8	51	54	5.7	40 - 140	30	
Endosulfan I	ND	3.3	79	84	6.1	56	60	6.9	40 - 140	30	
Endosulfan II	ND	3.3	77	84	8.7	56	60	6.9	40 - 140	30	
Endosulfan sulfate	ND	3.3	72	78	8.0	52	55	5.6	40 - 140	30	
Endrin	ND	3.3	68	75	9.8	50	53	5.8	40 - 140	30	
Endrin aldehyde	ND	3.3	52	57	9.2	45	44	2.2	40 - 140	30	
Endrin ketone	ND	3.3	78	85	8.6	55	59	7.0	40 - 140	30	
g-BHC	ND	1.0	78	86	9.8	54	57	5.4	40 - 140	30	
Heptachlor	ND	3.3	77	82	6.3	53	56	5.5	40 - 140	30	
Heptachlor epoxide	ND	3.3	78	86	9.8	55	59	7.0	40 - 140	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methoxychlor	ND	3.3	73	79	7.9	56	56	0.0	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	91	%	98	94	4.2	67	70	4.4	30 - 150	30	
% TCMX	93	%	95	94	1.1	63	63	0.0	30 - 150	30	
QA/QC Batch 453558 (ug/Kg), QC Sample No: CB81465 2X (CB81465, CB81471, CB81474, CB81493)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	84	87	3.5	84	86	2.4	40 - 140	30	
4,4' -DDE	ND	1.7	80	83	3.7	NC	NC	NC	40 - 140	30	
4,4' -DDT	ND	1.7	83	87	4.7	NC	NC	NC	40 - 140	30	
a-BHC	ND	1.0	100	97	3.0	68	53	24.8	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	73	74	1.4	70	62	12.1	40 - 140	30	
b-BHC	ND	1.0	81	83	2.4	74	65	12.9	40 - 140	30	
Chlordane	ND	33	77	81	5.1	80	76	5.1	40 - 140	30	
d-BHC	ND	3.3	81	81	0.0	74	67	9.9	40 - 140	30	
Dieldrin	ND	1.0	79	81	2.5	72	68	5.7	40 - 140	30	
Endosulfan I	ND	3.3	82	84	2.4	82	77	6.3	40 - 140	30	
Endosulfan II	ND	3.3	83	85	2.4	75	71	5.5	40 - 140	30	
Endosulfan sulfate	ND	3.3	80	88	9.5	77	71	8.1	40 - 140	30	
Endrin	ND	3.3	86	89	3.4	80	78	2.5	40 - 140	30	
Endrin aldehyde	ND	3.3	70	72	2.8	58	49	16.8	40 - 140	30	
Endrin ketone	ND	3.3	77	81	5.1	74	69	7.0	40 - 140	30	
g-BHC	ND	1.0	73	75	2.7	69	59	15.6	40 - 140	30	
Heptachlor	ND	3.3	76	77	1.3	69	54	24.4	40 - 140	30	
Heptachlor epoxide	ND	3.3	79	83	4.9	65	56	14.9	40 - 140	30	
Methoxychlor	ND	3.3	83	88	5.8	81	75	7.7	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	98	%	93	96	3.2	85	87	2.3	30 - 150	30	
% TCMX	88	%	81	85	4.8	79	62	24.1	30 - 150	30	
QA/QC Batch 453381 (ug/Kg), QC Sample No: CB81467 2X (CB81467, CB81468, CB81470, CB81473, CB81476, CB81477, CB81479, CB81480, CB81482, CB81483, CB81484, CB81486, CB81487, CB81489, CB81490, CB81492, CB81495)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	92	75	20.4	113	93	19.4	40 - 140	30	
4,4' -DDE	ND	1.7	83	72	14.2	NC	NC	NC	40 - 140	30	
4,4' -DDT	ND	1.7	93	74	22.8	NC	NC	NC	40 - 140	30	
a-BHC	ND	1.0	77	58	28.1	77	62	21.6	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	79	68	15.0	76	62	20.3	40 - 140	30	
b-BHC	ND	1.0	107	86	21.8	83	68	19.9	40 - 140	30	
Chlordane	ND	33	80	71	11.9	111	94	16.6	40 - 140	30	
d-BHC	ND	3.3	86	70	20.5	75	56	29.0	40 - 140	30	
Dieldrin	ND	1.0	85	72	16.6	81	58	33.1	40 - 140	30	r
Endosulfan I	ND	3.3	82	73	11.6	74	55	29.5	40 - 140	30	
Endosulfan II	ND	3.3	89	71	22.5	87	61	35.1	40 - 140	30	r
Endosulfan sulfate	ND	3.3	80	67	17.7	75	43	54.2	40 - 140	30	r
Endrin	ND	3.3	91	75	19.3	97	69	33.7	40 - 140	30	r
Endrin aldehyde	ND	3.3	70	62	12.1	58	27	72.9	40 - 140	30	m,r
Endrin ketone	ND	3.3	82	71	14.4	82	55	39.4	40 - 140	30	r
g-BHC	ND	1.0	91	72	23.3	83	65	24.3	40 - 140	30	
Heptachlor	ND	3.3	82	73	11.6	79	68	15.0	40 - 140	30	
Heptachlor epoxide	ND	3.3	83	75	10.1	129	106	19.6	40 - 140	30	
Methoxychlor	ND	3.3	80	77	3.8	81	64	23.4	40 - 140	30	

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	133	%	92	99	7.3	94	52	57.5	30 - 150	30	r
% TCMX	77	%	92	68	30.0	74	64	14.5	30 - 150	30	
QA/QC Batch 455052 (ug/Kg), QC Sample No: CB88489 2X (CB81472, CB81478, CB81491)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	109			77	66	15.4	40 - 140	30	
4,4' -DDE	ND	1.7	112			81	68	17.4	40 - 140	30	
4,4' -DDT	ND	1.7	106			71	64	10.4	40 - 140	30	
a-BHC	ND	1.0	84			60	48	22.2	40 - 140	30	
Alachlor	ND	3.3	NA			NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	85			63	51	21.1	40 - 140	30	
b-BHC	ND	1.0	98			72	41	54.9	40 - 140	30	r
Chlordane	ND	33	91			65	58	11.4	40 - 140	30	
d-BHC	ND	3.3	98			72	62	14.9	40 - 140	30	
Dieldrin	ND	1.0	96			71	61	15.2	40 - 140	30	
Endosulfan I	ND	3.3	95			69	60	14.0	40 - 140	30	
Endosulfan II	ND	3.3	107			78	67	15.2	40 - 140	30	
Endosulfan sulfate	ND	3.3	98			69	62	10.7	40 - 140	30	
Endrin	ND	3.3	102			75	65	14.3	40 - 140	30	
Endrin aldehyde	ND	3.3	96			74	76	2.7	40 - 140	30	
Endrin ketone	ND	3.3	105			78	68	13.7	40 - 140	30	
g-BHC	ND	1.0	91			66	54	20.0	40 - 140	30	
Heptachlor	ND	3.3	93			68	55	21.1	40 - 140	30	
Heptachlor epoxide	ND	3.3	102			70	61	13.7	40 - 140	30	
Methoxychlor	ND	3.3	102			75	65	14.3	40 - 140	30	
Toxaphene	ND	130	NA			NA	NA	NC	40 - 140	30	
% DCBP	98	%	116			92	77	17.8	30 - 150	30	
% TCMX	83	%	106			83	61	30.6	30 - 150	30	r
Comment:											
The QC for this batch consists of a Blank, LCS, MS, and MSD.											
QA/QC Batch 453586 (ug/kg), QC Sample No: CB81464 (CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	58	68	15.9	69	68	1.5	30 - 130	30	
Acenaphthene	ND	230	69	76	9.7	80	80	0.0	30 - 130	30	
Acenaphthylene	ND	230	64	70	9.0	74	73	1.4	30 - 130	30	
Anthracene	ND	230	67	73	8.6	78	77	1.3	30 - 130	30	
Benz(a)anthracene	ND	230	67	77	13.9	80	81	1.2	30 - 130	30	
Benzo(a)pyrene	ND	230	68	78	13.7	83	81	2.4	30 - 130	30	
Benzo(b)fluoranthene	ND	230	71	81	13.2	89	83	7.0	30 - 130	30	
Benzo(ghi)perylene	ND	230	66	72	8.7	79	79	0.0	30 - 130	30	
Benzo(k)fluoranthene	ND	230	68	76	11.1	82	82	0.0	30 - 130	30	
Chrysene	ND	230	68	75	9.8	81	80	1.2	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	71	80	11.9	85	85	0.0	30 - 130	30	
Fluoranthene	ND	230	67	74	9.9	78	79	1.3	30 - 130	30	
Fluorene	ND	230	69	75	8.3	80	81	1.2	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	70	77	9.5	83	84	1.2	30 - 130	30	
Naphthalene	ND	230	60	66	9.5	69	68	1.5	30 - 130	30	
Phenanthrene	ND	230	66	73	10.1	78	77	1.3	30 - 130	30	
Pyrene	ND	230	69	75	8.3	79	79	0.0	30 - 130	30	
% 2-Fluorobiphenyl	61	%	57	65	13.1	66	66	0.0	30 - 130	30	
% Nitrobenzene-d5	55	%	46	63	31.2	67	68	1.5	30 - 130	30	r

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Terphenyl-d14	58	%	53	63	17.2	60	63	4.9	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 454094 (ug/kg), QC Sample No: CB82437 (CB81456, CB81457, CB81459, CB81460, CB81461, CB81462, CB81496 (50X) , CB81497)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	94	94	0.0	99	101	2.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	92	98	6.3	103	107	3.8	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	98	100	2.0	102	103	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	95	97	2.1	103	102	1.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	93	97	4.2	100	104	3.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	94	98	4.2	94	99	5.2	70 - 130	30
1,1-Dichloropropene	ND	5.0	96	99	3.1	105	109	3.7	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	93	94	1.1	91	94	3.2	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	89	91	2.2	90	90	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	88	90	2.2	88	91	3.4	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	89	92	3.3	95	97	2.1	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	103	107	3.8	86	93	7.8	70 - 130	30
1,2-Dibromoethane	ND	5.0	91	93	2.2	94	97	3.1	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	98	100	2.0	103	104	1.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	97	98	1.0	104	104	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	96	99	3.1	100	100	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	90	93	3.3	98	100	2.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	90	91	1.1	95	97	2.1	70 - 130	30
1,3-Dichloropropane	ND	5.0	87	89	2.3	94	96	2.1	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	96	97	1.0	102	104	1.9	70 - 130	30
2,2-Dichloropropane	ND	5.0	95	100	5.1	100	108	7.7	70 - 130	30
2-Chlorotoluene	ND	5.0	93	94	1.1	100	102	2.0	70 - 130	30
2-Hexanone	ND	25	85	87	2.3	86	88	2.3	70 - 130	30
2-Isopropyltoluene	ND	5.0	99	103	4.0	103	104	1.0	70 - 130	30
4-Chlorotoluene	ND	5.0	89	90	1.1	96	98	2.1	70 - 130	30
4-Methyl-2-pentanone	ND	25	93	98	5.2	99	98	1.0	70 - 130	30
Acetone	ND	10	76	79	3.9	71	86	19.1	70 - 130	30
Acrylonitrile	ND	5.0	97	100	3.0	93	96	3.2	70 - 130	30
Benzene	ND	1.0	93	96	3.2	97	99	2.0	70 - 130	30
Bromobenzene	ND	5.0	94	98	4.2	99	101	2.0	70 - 130	30
Bromochloromethane	ND	5.0	91	95	4.3	94	99	5.2	70 - 130	30
Bromodichloromethane	ND	5.0	100	103	3.0	97	102	5.0	70 - 130	30
Bromoform	ND	5.0	103	103	0.0	92	94	2.2	70 - 130	30
Bromomethane	ND	5.0	99	100	1.0	103	105	1.9	70 - 130	30
Carbon Disulfide	ND	5.0	92	96	4.3	83	90	8.1	70 - 130	30
Carbon tetrachloride	ND	5.0	94	100	6.2	95	102	7.1	70 - 130	30
Chlorobenzene	ND	5.0	96	97	1.0	103	106	2.9	70 - 130	30
Chloroethane	ND	5.0	97	99	2.0	101	102	1.0	70 - 130	30
Chloroform	ND	5.0	88	91	3.4	88	93	5.5	70 - 130	30
Chloromethane	ND	5.0	89	93	4.4	90	94	4.3	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	93	97	4.2	106	107	0.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	101	101	0.0	99	101	2.0	70 - 130	30
Dibromochloromethane	ND	3.0	104	105	1.0	101	106	4.8	70 - 130	30
Dibromomethane	ND	5.0	96	100	4.1	102	102	0.0	70 - 130	30
Dichlorodifluoromethane	ND	5.0	90	93	3.3	91	97	6.4	70 - 130	30

QA/QC Data

SDG I.D.: GCB81454

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Ethylbenzene	ND	1.0	93	94	1.1	103	105	1.9	70 - 130	30
Hexachlorobutadiene	ND	5.0	93	96	3.2	88	91	3.4	70 - 130	30
Isopropylbenzene	ND	1.0	91	96	5.3	95	98	3.1	70 - 130	30
m&p-Xylene	ND	2.0	88	89	1.1	98	101	3.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	85	85	0.0	91	96	5.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	95	93	2.1	94	97	3.1	70 - 130	30
Methylene chloride	ND	5.0	88	91	3.4	88	86	2.3	70 - 130	30
Naphthalene	ND	5.0	95	100	5.1	94	96	2.1	70 - 130	30
n-Butylbenzene	ND	1.0	94	97	3.1	98	100	2.0	70 - 130	30
n-Propylbenzene	ND	1.0	94	98	4.2	99	100	1.0	70 - 130	30
o-Xylene	ND	2.0	92	93	1.1	96	99	3.1	70 - 130	30
p-Isopropyltoluene	ND	1.0	92	95	3.2	99	101	2.0	70 - 130	30
sec-Butylbenzene	ND	1.0	94	98	4.2	101	103	2.0	70 - 130	30
Styrene	ND	5.0	88	89	1.1	96	98	2.1	70 - 130	30
tert-Butylbenzene	ND	1.0	92	96	4.3	99	100	1.0	70 - 130	30
Tetrachloroethene	ND	5.0	99	102	3.0	108	110	1.8	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	94	100	6.2	89	94	5.5	70 - 130	30
Toluene	ND	1.0	99	101	2.0	108	110	1.8	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	92	98	6.3	102	105	2.9	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	93	96	3.2	95	98	3.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	108	113	4.5	99	102	3.0	70 - 130	30
Trichloroethene	ND	5.0	94	97	3.1	100	104	3.9	70 - 130	30
Trichlorofluoromethane	ND	5.0	93	99	6.3	100	100	0.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	97	101	4.0	94	100	6.2	70 - 130	30
Vinyl chloride	ND	5.0	99	103	4.0	104	109	4.7	70 - 130	30
% 1,2-dichlorobenzene-d4	94	%	103	105	1.9	101	98	3.0	70 - 130	30
% Bromofluorobenzene	101	%	98	99	1.0	103	104	1.0	70 - 130	30
% Dibromofluoromethane	106	%	95	97	2.1	97	100	3.0	70 - 130	30
% Toluene-d8	87	%	105	104	1.0	106	105	0.9	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%.

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 13, 2018

Tuesday, November 13, 2018

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCB81454 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB81459	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	22	7.4	20	20	ug/Kg
CB81460	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	27	8.2	20	20	ug/Kg
CB81460	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	37	8.2	20	20	ug/Kg
CB81465	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	92	38	20	20	ug/Kg
CB81465	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	100	38	20	20	ug/Kg
CB81467	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	100	80	20	20	ug/Kg
CB81467	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	150	80	20	20	ug/Kg
CB81468	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	66	40	20	20	ug/Kg
CB81468	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	72	40	20	20	ug/Kg
CB81470	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	56	41	20	20	ug/Kg
CB81470	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	71	41	20	20	ug/Kg
CB81471	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	160	84	20	20	ug/Kg
CB81471	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	200	84	20	20	ug/Kg
CB81472	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	90	43	20	20	ug/Kg
CB81472	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	72	43	20	20	ug/Kg
CB81473	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	71	7.7	20	20	ug/Kg
CB81473	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	79	7.7	20	20	ug/Kg
CB81474	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	65	8.0	20	20	ug/Kg
CB81474	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	100	80	20	20	ug/Kg
CB81476	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	83	40	20	20	ug/Kg
CB81476	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	120	40	20	20	ug/Kg
CB81477	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	140	85	20	20	ug/Kg
CB81477	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	150	85	20	20	ug/Kg
CB81478	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	130	83	20	20	ug/Kg
CB81478	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	130	83	20	20	ug/Kg
CB81479	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	86	42	20	20	ug/Kg
CB81479	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	98	42	20	20	ug/Kg
CB81480	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	72	42	20	20	ug/Kg
CB81480	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	80	42	20	20	ug/Kg
CB81482	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	84	42	20	20	ug/Kg

Tuesday, November 13, 2018

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCB81454 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB81482	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	96	42	20	20	ug/Kg
CB81483	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	52	42	20	20	ug/Kg
CB81483	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	76	42	20	20	ug/Kg
CB81484	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	59	41	20	20	ug/Kg
CB81484	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	94	41	20	20	ug/Kg
CB81486	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	55	42	20	20	ug/Kg
CB81486	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	84	42	20	20	ug/Kg
CB81487	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	74	8.2	20	20	ug/Kg
CB81487	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	52	8.2	20	20	ug/Kg
CB81489	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	210	43	20	20	ug/Kg
CB81489	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	210	43	20	20	ug/Kg
CB81490	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	130	42	20	20	ug/Kg
CB81490	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	130	42	20	20	ug/Kg
CB81491	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	110	85	20	20	ug/Kg
CB81491	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	92	17	20	20	ug/Kg
CB81493	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	87	42	20	20	ug/Kg
CB81493	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	82	42	20	20	ug/Kg
CB81495	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	57	8.4	20	20	ug/Kg
CB81495	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	44	8.4	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: RUSSO FAMILY PROPERTIES ***Project Number:***

Laboratory Sample ID(s): CB81454-CB81465, ***Sampling Date(s):*** 10/24/2018
CB81467, CB81468, CB81470, CB81471, CB81473, CB81474, CB81476, CB81477, CB81479, CB81480, CB81482-CB81484, CB81486, CB81487, CB81489, CB81490, CB81492, CB81493, CB81495-CB81497

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 8082, 8151, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **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 acheived? See Sections: Herbicide Narration, ICP Narration, PEST Narration, SVOA 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, November 13, 2018

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 13, 2018

SDG I.D.: GCB81454

SDG Comments

Metals Analysis: (CB81456-CB81464)
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.

Metals Analysis: (CB81465-CB81495)
The client requested a shorter list of elements than the 6010 RCP list. Only Arsenic and Lead is reported as requested on the chain of custody.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 10/29/18-1 Jeff Bucko, Chemist 10/29/18

CB81461

The initial calibration (ETPHO25I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 10/29/18-1 Jeff Bucko, Chemist 10/29/18

CB81456, CB81457, CB81459, CB81460

The initial calibration (ETPHO29I) 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 and contained the following outliers: C36 27.7%L (20%)
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 10/26/18-1 Jeff Bucko, Chemist 10/26/18

CB81458

The initial calibration (ETPHO25I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 10/29/18-1 Jeff Bucko, Chemist 10/29/18

CB81462, CB81463, CB81464

The initial calibration (ETPH925I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 453798 (CB81458)

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464

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.

Environmental Laboratories, Inc.
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SDG I.D.: GCB81454

ETPH Narration

Herbicide Narration

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

QC Batch 453364 (Samples: CB81456): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (Dalapon)

QC Batch 453387 (Samples: CB81457, CB81459, CB81460, CB81461, CB81462, CB81465, CB81468, CB81471, CB81474, CB81477, CB81480, CB81482, CB81484): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (Dalapon)

QC Batch 453514 (Samples: CB81487, CB81490, CB81493): -----

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Dalapon)

Instrument:

AU-ECD2 10/25/18-1 Carol Wohlmuth, Chemist 10/25/18

CB81456, CB81457, CB81459, CB81460, CB81461, CB81462, CB81465, CB81468, CB81471, CB81474, CB81477, CB81480, CB81482, CB81484, CB81487, CB81490, CB81493

The initial calibration (HRBO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRBO24BI) 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 453364 (CB81178)

CB81456

All LCS recoveries were within 40 - 140 with the following exceptions: Dalapon(31%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Dalapon(26%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The QC for this batch consists of a Blank, LCS, LCSD, and MS.

Batch 453514 (CB82584)

CB81487, CB81490, CB81493

All LCS recoveries were within 40 - 140 with the following exceptions: Dalapon(34%)
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 453387 (CB81465)

CB81457, CB81459, CB81460, CB81461, CB81462, CB81465, CB81468, CB81471, CB81474, CB81477, CB81480, CB81482, CB81484

All LCS recoveries were within 40 - 140 with the following exceptions: Dalapon(37%)
All LCSD recoveries were within 40 - 140 with the following exceptions: Dalapon(37%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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Herbicide Narration

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.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 10/29/18 08:16 Rick Schweitzer, Chemist 10/29/18

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
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 453703 (CB81458)

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464

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.
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 453345 (Samples: CB81454, CB81455, CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464, CB81465, CB81467, CB81468, CB81470, CB81471, CB81473, CB81474, CB81476, CB81477): -----

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. (Selenium)

Instrument:

ARCOS 10/25/18 08:29 Cindy Pearce, Emily Kolominskaya, Chemist 10/25/18

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464, CB81465, CB81467, CB81468, CB81470, CB81471, CB81473, CB81474, CB81476, CB81477, CB81479, CB81480, CB81482, CB81483, CB81484, CB81486, CB81487, CB81489, CB81490, CB81492, CB81493, CB81495

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%

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ICP Metals Narration

(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: CCV 10/26/18 04:54: Lead 111% (90-110)
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 10/26/18 13:16 Cindy Pearce, Emily Kolominskaya, Chemist 10/26/18

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464, CB81465, CB81467, CB81468, CB81470, CB81471, CB81473, CB81474, CB81476, CB81477

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 453345 (CB81465)

CB81454, CB81455, CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464, CB81465, CB81467, CB81468, CB81470, CB81471, CB81473, CB81474, CB81476, CB81477

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: Selenium(71.6%)
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.

Batch 453360 (CB81479)

CB81479, CB81480, CB81482, CB81483, CB81484, CB81486, CB81487, CB81489, CB81490, CB81492, CB81493, CB81495

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD1 10/29/18-1 Adam Werner, Chemist 10/29/18

CB81454, CB81455

The initial calibration (PC1023AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1023BI) RSD for the compound list was less than 20% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

AU-ECD24 10/26/18-1 Adam Werner, Chemist 10/26/18

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464

The initial calibration (PC1024AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1024BI) 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):

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PCB Narration

Batch 453511 (CB82584)

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464

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 453720 (CB82560)

CB81454, CB81455

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 453381 (Samples: CB81467, CB81468, CB81470, CB81473, CB81476, CB81477, CB81479, CB81480, CB81482, CB81483, CB81484, CB81486, CB81487, CB81489, CB81490, CB81492, CB81495): -----

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. (Endrin aldehyde)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Dieldrin, Endosulfan II, Endosulfan sulfate, Endrin, Endrin aldehyde, Endrin ketone)

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% DCBP)

Instrument:

AU-ECD10 10/29/18-1 Carol Wohlmuth, Chemist 10/29/18

CB81465, CB81467, CB81468, CB81470, CB81476, CB81477, CB81479, CB81480, CB81482, CB81483, CB81484, CB81486, CB81490

The initial calibration (PSO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO24BI) 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 10/26/18-1 Carol Wohlmuth, Chemist 10/26/18

CB81456, CB81459, CB81460, CB81461, CB81467, CB81468, CB81470, CB81473, CB81476, CB81477, CB81479, CB81480, CB81482, CB81483, CB81484, CB81486, CB81487

The initial calibration (PSO23AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO23BI) 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: CB81456, CB81459, CB81467
Preceding CC O26A011 - % DCBP 50%H (20%)
Succeeding CC O26A027 - None.
Samples: CB81456, CB81459, CB81467

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Preceding CC O26B011 - None.
Succeeding CC O26B027 - % DCBP -22%L (20%), 4,4'-DDD -25%L (20%), 4,4'-DDT -26%L (20%), d-BHC -23%L (20%), Dieldrin -22%L (20%), Endosulfan II -22%L (20%), Endosulfan sulfate -25%L (20%), Endrin aldehyde -28%L (20%), Endrin Ketone -29%L (20%), g-BHC -23%L (20%), Methoxychlor -24%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.
Samples: CB81460, CB81461, CB81468, CB81470, CB81473, CB81476, CB81477, CB81479, CB81480, CB81482
Preceding CC O26B027 - % DCBP -22%L (20%), 4,4'-DDD -25%L (20%), 4,4'-DDT -26%L (20%), d-BHC -23%L (20%), Dieldrin -22%L (20%), Endosulfan II -22%L (20%), Endosulfan sulfate -25%L (20%), Endrin aldehyde -28%L (20%), Endrin Ketone -29%L (20%), g-BHC -23%L (20%), Methoxychlor -24%L (20%)
Succeeding CC O26B040 - % DCBP -22%L (20%), Endosulfan sulfate -21%L (20%), Endrin aldehyde -25%L (20%), Endrin Ketone -27%L (20%), Methoxychlor -23%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.
Samples: CB81483, CB81484, CB81486, CB81487
Preceding CC O26B040 - % DCBP -22%L (20%), Endosulfan sulfate -21%L (20%), Endrin aldehyde -25%L (20%), Endrin Ketone -27%L (20%), Methoxychlor -23%L (20%)
Succeeding CC O26B053 - % DCBP -31%L (20%), 4,4'-DDD -25%L (20%), 4,4'-DDT -24%L (20%), Endosulfan II -22%L (20%), Endosulfan sulfate -23%L (20%), Endrin aldehyde -24%L (20%), Endrin Ketone -32%L (20%), Methoxychlor -28%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 10/29/18-1 Carol Wohlmuth, Chemist 10/29/18

CB81457, CB81458

The initial calibration (PSO23AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO23BI) 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 11/08/18-1 Carol Wohlmuth, Chemist 11/08/18

CB81478, CB81491

The initial calibration (PSN06AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSN06BI) 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 11/09/18-1 Carol Wohlmuth, Chemist 11/09/18

CB81472

The initial calibration (PSN06AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSN06BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD4 10/26/18-1 Carol Wohlmuth, Chemist 10/26/18

CB81465, CB81489, CB81490, CB81492, CB81495

The initial calibration (PSO18AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO18BI) RSD for the compound list was less than 20% except for the following compounds: None.

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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: CB81465
Preceding CC O26A010 - a-BHC 34%H (20%)
Succeeding CC O26A026 - None.
Samples: CB81489, CB81490, CB81492, CB81495
Preceding CC O26B026 - % TCMX 21%H (20%), d-BHC 27%H (20%), Endrin 27%H (20%)
Succeeding CC O26B039 - % TCMX 24%H (20%), Aldrin 24%H (20%), b-BHC 21%H (20%), d-BHC 24%H (20%), Endrin 30%H (20%), Heptachlor epoxide 22%H (20%)

AU-ECD4 10/29/18-1 Carol Wohlmuth, Chemist 10/29/18

CB81462, CB81463, CB81464, CB81471, CB81474, CB81489, CB81493

The initial calibration (PSO18AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO18BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD4 11/07/18-1 Carol Wohlmuth, Chemist 11/07/18

CB81478

The initial calibration (PSO30AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO30BI) 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 10/30/18-1 Carol Wohlmuth, Chemist 10/30/18

CB81471, CB81474, CB81493

The initial calibration (PSO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO24BI) 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 11/07/18-1 Carol Wohlmuth, Chemist 11/07/18

CB81472, CB81491

The initial calibration (PSN05AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSN05BI) 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:
N07A018 (CB81472, CB81491) - Endrin Breakdown (18%)
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 453513 (CB81173)

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464

All LCS recoveries were within 40 - 140 with the following exceptions: None.

PHOENIX

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PEST 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.

Batch 455052 (CB88489)

CB81472, CB81478, CB81491

All LCS recoveries were within 40 - 140 with the following exceptions: None.
The QC for this batch consists of a Blank, LCS, MS, and MSD.

QC (Site Specific):

Batch 453381 (CB81467)

CB81467, CB81468, CB81470, CB81473, CB81476, CB81477, CB81479, CB81480, CB81482, CB81483, CB81484, CB81486, CB81487, CB81489, CB81490, CB81492, CB81495

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: Endrin aldehyde(27%)
All MS/MSD RPDs were less than 30% with the following exceptions: % DCBP(57.5%), Dieldrin(33.1%), Endosulfan II(35.1%), Endosulfan sulfate(54.2%), Endrin(33.7%), Endrin aldehyde(72.9%), Endrin ketone(39.4%)
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.

Batch 453558 (CB81465)

CB81465, CB81471, CB81474, CB81493

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? No.

QC Batch 453586 (Samples: CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464): -----

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% Nitrobenzene-d5)

Instrument:

CHEM05 10/26/18-1 Adam Werner, Chemist 10/26/18

CB81456, CB81457, CB81464

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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SVOA Narration

Initial Calibration Verification (CHEM05/5_BN_1022):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: Naphthalene 24% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/1026_03-5_BN_1022):
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.

CHEM05 10/27/18-1 Adam Werner, Chemist 10/27/18

CB81459, CB81461, CB81462

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 Verification (CHEM05/5_BN_1022):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: Naphthalene 24% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/1027_05-5_BN_1022):
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 10/29/18-1 Adam Werner, Chemist 10/29/18

CB81458, CB81460, CB81463

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 Verification (CHEM28/28_BN_1009):
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 (CHEM28/1029_03-28_BN_1009):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.

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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 (Site Specific):

Batch 453586 (CB81464)

CB81456, CB81457, CB81458, CB81459, CB81460, CB81461, CB81462, CB81463, CB81464

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: % Nitrobenzene-d5(31.2%)
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM18 10/28/18-1 Jane Li, Chemist 10/28/18

CB81456, CB81457, CB81459, CB81460, CB81461, CB81462, CB81496, CB81497

Initial Calibration Verification (CHEM18/VT-M1026):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2,4-Trichlorobenzene 21% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/1028M02-VT-M1026):
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 454094 (CB82437)

CB81456, CB81457, CB81459, CB81460, CB81461, CB81462, CB81496, CB81497

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%.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 13, 2018

SDG I.D.: GCB81454

Temperature Narration

The samples were received at 1.8C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

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☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

NCIP 1.8

CHAIN-OF-CUSTODY RECORD 39492

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Russo Family Properties	Windsor, CT	20170277.A20	Phoenix

REPORT TO: Stefanie Wierszchalek
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: Scott Fraser Date: 10/24/18

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 _____

Analysis Request

Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH	PAHs	PCBs	RCRA 8 Metals	Pesticides	Herbicides	VOCs	Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☒ water	Glass Soil Container (8) oz	Na(SO4)2	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is	Plastic - As is, ☐ 250 ml	Plastic - H_2SO_4, ☐ 250 ml	Plastic - H_2SO_4 ☐ 500 ☐ 1000 ml	Plastic - HNO_3, 250 ml	Plastic - HNO_3 ☐ 500 ml	Plastic - NaOH, 250 ml	☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
01		153418 1024-16	S	10/24/18	850	X	X	X	X						1													81454
02		-17			920	X	X	X	X						1													81455
03		-18			955	X	X	X	X	X	X		1	2	1													81456
04		-19			1000	X	X	X	X	X	X		1	2	1					81457								No Charge
05		-20			1015	X	X	X	X						1													81458
06		-21			1030	X	X	X	X	X	X		1	2	1													81459
07		-22			1050	X	X	X	X	X	X		1	2	1													81460
08		-23			1115	X	X	X	X	X	X		1	2	1													81461
09		-24			1137	X	X	X	X	X	X		1	2	1													81462
10		-25			1148	X	X	X	X						1													81463

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Scott Fraser	Kayla Russell	102418	1548
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC, Res DEC, I/C DEC
Additional Comments:

WC1P18

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☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 39493

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Russo Family Properties	Windsor, CT	20170277.A20	Phoenix

REPORT TO: Stefanie Wierszchalek
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: Scott Fass Date: 10/24/18

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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH, PAHs	PCBs	RCRA 8 Metals	Pesticides	Herbicides	VOCs	As + Pb	HOLD SAMPLE	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $Na(SO_4)_2$	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
11					153418 1024-26	S	10/24/18	1205	X	X	X	X							1									81464
12					-27			1255				X	X		X				3									81465 MS/MSD
13					-28			1256								X			1									81466 HOLD
14					-29			1258				X			X				1									81467
15					-30			1300				X	X		X				1									81468
16					-31			1301								X			1									81469 HOLD
17					-32			1303				X			X				1									81470
18					-33			1305				X	X		X				1									81471
19					-34			1306								X			1									81472 HOLD
20					-35			1308				X			X				1									81473

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Scott Fass	[signature]	102418	1545
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.
GB PMC, Res DEC, I/C DEC
Additional Comments:

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☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

WCIP18

CHAIN-OF-CUSTODY RECORD 39494

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Russo Family Properties	Windsor, CT	20170277.A20	Phoenix

REPORT TO: Stefanie Wierszchalek
INVOICE TO:
P.O. NO.:
Sampler's Signature: Scott Farr Date: 10/24/18

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 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: Pesticides	Herbicides	As + Pb	HOLD SAMPLE	Containers: Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is	Plastic - As is, ☐ 250 ml	Plastic - H_2SO_4 ☐ 500	☐ H_2SO_4 ☐ 1000 ml	Plastic - HNO_3, 250 ml	☐ 250 ml ☐ 500 ml	Plastic - NaOH, 250 ml	☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
21					153418 1024-36	S	10/24/18	1310	X	X	X				1												81474
22					-37			1311				X			1				81475								HOLD
23					-38			1313	X		X				1												81476
24					-39			1315	X	X	X				1												81477
25					-40			1316				X			1				81478								HOLD
26					-41			1318	X		X				1												81479
27					-42			1320	X	X	X				1												81480
28					-43			1322				X			1				81481								HOLD
29					-44			1321	X	X	X				1				81482								No Charge
30					-45			1324	X		X				1												81483

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Scott Farr	Kaylin Russell	102418	1548
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC, Res DEC, I/C DEC
Additional Comments:

WCIP1.8

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☐ Other _____

CHAIN-OF-CUSTODY RECORD 39495

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Russo Family Properties	Windsor, CT	20170277.A20	Phoenix

REPORT TO: Stefanie Wierszchelek
INVOICE TO:
P.O. NO.:
Sampler's Signature: Scott Fears Date: 10/24/18

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 _____

Analysis Request

Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Pesticides	Herbicides	As + Pb	Hold Sample	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $NaSO_4$	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
31					153418 1024-46	S	10/24/18	1328	X	X	X				1									81484
32					-47			1329				X			1						81485			HOLD
33					-48			1332	X		X				1									81486
34					-49			1335	X	X	X				1									81487
35					-50			1337				X			1						81488			HOLD
36					-51			1339	X		X				1									81489
37					-52			1341	X	X	X				1									81490
38					-53			1342				X			1						81491			HOLD
39					-54			1344	X		X				1									81492
40					-55			1348	X	X	X				1									81493

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Scott Fears	Kayla Murciel	102418	1548
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.
GB PMC, Res DEC, I/C DEC
Additional Comments:

WCIP18

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☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 39491

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Russo Family Properties	Windsor, CT	20170277.A20	Phoenix

REPORT TO: Stefanie Wierszchalek
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: Sam Fury Date: 10/24/18

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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Pesticides	Herbicides	As + Pb	Hold Sample	VOCs	Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☒ water	Glass Soil Container (8) oz	Na(SO4)2	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ As is ☐ H2SO4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H2SO4, ☐ 250 ml ☐ 500 ml	Plastic - HNO3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
41					153418102 4-56	S	10/24/18	1349			X					1					8	1	4	9	4	HOLD
42					-57	S		1352	X	X						1										81495
43					-58	X		1445				X					1						8	1	4	9	6	TB
44					-59	X		1450				X					2						8	1	4	9	7	TB

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Sam Fury	Kayla Murell	102418	1548
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
_____ Duplicates 2 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC, Res DEC, I/C OEC
Additional Comments:

Bobbi Aloisa

From: Stefanie Wierszchalek <SWierszchalek@fando.com>
Sent: Thursday, October 25, 2018 10:16 AM
To: Client Services
Cc: Sarah Bell; Bobbi Aloisa
Subject: RE: Phoenix Labs - GCB81454, RUSSO FAMILY PROPERTIES - COC Acknowledgement

Good morning,

With regards to samples CB81454 and CB81455 (client ID 1534181024-16 & -17, respectively) please run PCBs only. Let me know if you have any questions or need additional information.

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: Client Services [mailto:clientservices@phoenixlabs.com]
Sent: Wednesday, October 24, 2018 8:13 PM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Subject: Phoenix Labs - GCB81454, RUSSO FAMILY PROPERTIES - COC Acknowledgement

Stephanie,

Please email client services only if you have a Price Quote# for this SDG, a Quote# was not listed on the COC.

Purchase Order#:20170277.A20

GCB81454 Criteria:
SOIL(44): CT GBM (GB Mobility), CT I/C (I/C Dec), CT RC (Res. Criteria)

Please email client services only if you require criteria different than what is listed.

Delivery group GCB81454 (RUSSO FAMILY PROPERTIES) has been logged in for the following samples:

Phoenix Id	Client Id
CB81454	1534181024-16
CB81455	1534181024-17
CB81456	1534181024-18
CB81457	1534181024-19
CB81458	1534181024-20
CB81459	1534181024-21
CB81460	1534181024-22
CB81461	1534181024-23
CB81462	1534181024-24

CB81463	1534181024-25
CB81464	1534181024-26
CB81465	1534181024-27
CB81466	1534181024-28
CB81467	1534181024-29
CB81468	1534181024-30
CB81469	1534181024-31
CB81470	1534181024-32
CB81471	1534181024-33
CB81472	1534181024-34
CB81473	1534181024-35
CB81474	1534181024-36
CB81475	1534181024-37
CB81476	1534181024-38
CB81477	1534181024-39
CB81478	1534181024-40
CB81479	1534181024-41
CB81480	1534181024-42
CB81481	1534181024-43
CB81482	1534181024-44
CB81483	1534181024-45
CB81484	1534181024-46
CB81485	1534181024-47
CB81486	1534181024-48
CB81487	1534181024-49
CB81488	1534181024-50
CB81489	1534181024-51
CB81490	1534181024-52
CB81491	1534181024-53
CB81492	1534181024-54
CB81493	1534181024-55
CB81494	1534181024-56
CB81495	1534181024-57
CB81496	1534181024-58
CB81497	1534181024-59

The samples were received at 1.8C with cooling initiated. (Note acceptance criteria for relevant matrices is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

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.

Sarah Bell

From: Stefanie Wierszchalek <SWierszchalek@fando.com>
Sent: Tuesday, November 06, 2018 9:47 AM
To: Bobbi Aloisa
Cc: Sarah Bell
Subject: Russo Family Properties - Add On Analyses (GCB80581 & GCB81454)

Good morning Bobbi,

I need to request additional analyses for a handful of samples from the Russo Family Properties project. Please run the following:

Phoenix Sample ID	F&O Sample ID	Add On Parameters
CB81472	1534181024-34	Pesticides
CB81478	1534181024-40	Pesticides
CB81491	1534181024-53	Pesticides
CB80588	1534181023-08	SPLP Arsenic SPLP Lead TCLP Lead
CB80590	1534181023-10	SPLP Lead TCLP Lead

Please let me know if you have any questions or need more information.

Thank you,

Stefanie Wierszchalek
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
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Thursday, November 01, 2018

Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RUSSO FAMILY PROPERTIES
Sample ID#s: CB82602 - CB82608

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

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

Analysis Report

November 01, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/25/18	9:12
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82602
Phoenix ID: CB82602

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-60

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	9.93	0.76	mg/Kg	1	10/28/18	CPP	SW6010C
Lead	24.3	0.38	mg/Kg	1	10/28/18	CPP	SW6010C
Percent Solid	87		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/29/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/26/18	MB/CKV	SW3545A
Extraction of CT ETPH	Completed				10/29/18	JJ/VCK	SW3545A
Total Metals Digest	Completed				10/26/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	10/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	58		%	1	10/30/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
PCB-1221	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
PCB-1232	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
PCB-1242	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
PCB-1248	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
PCB-1254	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
PCB-1260	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
PCB-1262	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
PCB-1268	ND	380	ug/Kg	10	10/30/18	KCA	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	10/30/18	KCA	30 - 150 %
% TCMX	75		%	10	10/30/18	KCA	30 - 150 %

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-60

Phoenix I.D.: CB82602

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Anthracene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Chrysene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Fluoranthene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Fluorene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Naphthalene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Phenanthrene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
Pyrene	ND	270	ug/Kg	1	10/27/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	10/27/18	AW	30 - 130 %
% Nitrobenzene-d5	77		%	1	10/27/18	AW	30 - 130 %
% Terphenyl-d14	61		%	1	10/27/18	AW	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 01, 2018
Reviewed and Released 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 01, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/25/18	9:40
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82602
Phoenix ID: CB82603

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-61

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.49	0.73	mg/Kg	1	10/28/18	CPP	SW6010C
Lead	16.7	0.37	mg/Kg	1	10/28/18	CPP	SW6010C
Percent Solid	91		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/29/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/26/18	MB/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Total Metals Digest	Completed				10/26/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	51		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1262	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	120		%	10	10/31/18	AW	30 - 150 %
% TCMX	97		%	10	10/31/18	AW	30 - 150 %

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-61

Phoenix I.D.: CB82603

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Anthracene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Chrysene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Fluoranthene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Fluorene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Naphthalene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Phenanthrene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
Pyrene	ND	250	ug/Kg	1	10/27/18	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	10/27/18	AW	30 - 130 %
% Nitrobenzene-d5	68		%	1	10/27/18	AW	30 - 130 %
% Terphenyl-d14	58		%	1	10/27/18	AW	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 01, 2018
Reviewed and Released 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 01, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/25/18	10:00
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82602
Phoenix ID: CB82604

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-62

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.21	0.76	mg/Kg	1	10/28/18	CPP	SW6010C
Lead	21.4	0.38	mg/Kg	1	10/28/18	CPP	SW6010C
Percent Solid	88		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/29/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/26/18	MB/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Total Metals Digest	Completed				10/26/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	55		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1221	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1232	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1242	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1248	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1254	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1260	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1262	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1268	ND	380	ug/Kg	10	10/31/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	95		%	10	10/31/18	AW	30 - 150 %
% TCMX	77		%	10	10/31/18	AW	30 - 150 %

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-62

Phoenix I.D.: CB82604

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	10/29/18	WB	30 - 130 %
% Nitrobenzene-d5	65		%	1	10/29/18	WB	30 - 130 %
% Terphenyl-d14	64		%	1	10/29/18	WB	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 01, 2018
Reviewed and Released 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 01, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/25/18	10:02
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82602
Phoenix ID: CB82605

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-63

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.12	0.69	mg/Kg	1	10/28/18	CPP	SW6010C
Lead	26.4	0.35	mg/Kg	1	10/28/18	CPP	SW6010C
Percent Solid	90		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/30/18	MB/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/26/18	MB/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Total Metals Digest	Completed				10/26/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	54		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1221	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1232	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1242	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1248	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1254	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1260	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1262	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1268	ND	360	ug/Kg	10	10/31/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	111		%	10	10/31/18	AW	30 - 150 %
% TCMX	94		%	10	10/31/18	AW	30 - 150 %

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-63

Phoenix I.D.: CB82605

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/29/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	10/29/18	WB	30 - 130 %
% Nitrobenzene-d5	61		%	1	10/29/18	WB	30 - 130 %
% Terphenyl-d14	65		%	1	10/29/18	WB	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 01, 2018
Reviewed and Released 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 01, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/25/18	10:40
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82602
Phoenix ID: CB82606

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-64

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.44	0.75	mg/Kg	1	10/28/18	CPP	SW6010C
Lead	21.3	0.37	mg/Kg	1	10/28/18	CPP	SW6010C
Percent Solid	88		%		10/25/18	AK	SW846-%Solid
Soil Extraction for PCB	Completed				10/29/18	AA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/26/18	MB/CKV	SW3545A
Extraction of CT ETPH	Completed				10/26/18	MJ/VCK	SW3545A
Total Metals Digest	Completed				10/26/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	10/29/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	10/29/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	51		%	1	10/29/18	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1262	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	10/31/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	106		%	10	10/31/18	AW	30 - 150 %
% TCMX	89		%	10	10/31/18	AW	30 - 150 %

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-64

Phoenix I.D.: CB82606

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Acenaphthene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Anthracene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Chrysene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Fluoranthene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Fluorene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Naphthalene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Phenanthrene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
Pyrene	ND	260	ug/Kg	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	10/30/18	WB	30 - 130 %
% Nitrobenzene-d5	60		%	1	10/30/18	WB	30 - 130 %
% Terphenyl-d14	66		%	1	10/30/18	WB	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 01, 2018
Reviewed and Released 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 01, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/25/18	12:05
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82602
Phoenix ID: CB82607

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-65

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	10/28/18	CPP	SW6010C
Arsenic	3.70	0.66	mg/Kg	1	10/28/18	CPP	SW6010C
Barium	9.46	0.33	mg/Kg	1	10/28/18	CPP	SW6010C
Cadmium	< 0.33	0.33	mg/Kg	1	10/28/18	CPP	SW6010C
Chromium	8.33	0.33	mg/Kg	1	10/28/18	CPP	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	10/30/18	RS	SW7471B
Lead	2.62	0.33	mg/Kg	1	10/28/18	CPP	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	10/28/18	CPP	SW6010C
Percent Solid	92		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/30/18	SA/V	SW3545A
Soil Extraction SVOA PAH	Completed				10/26/18	MB/CKV	SW3545A
Extraction of CT ETPH	Completed				10/31/18	SJ/VCK	SW3545A
Mercury Digestion	Completed				10/30/18	EV/EV	SW7471B
Total Metals Digest	Completed				10/26/18	B/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	11/01/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	11/01/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	98		%	1	11/01/18	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
4,4' -DDE	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
4,4' -DDT	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
a-BHC	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Alachlor	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Aldrin	ND	3.6	ug/Kg	2	10/31/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Chlordane	ND	36	ug/Kg	2	10/31/18	CW	SW8081B
d-BHC	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Dieldrin	ND	3.6	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan I	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan II	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan sulfate	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Endrin	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Endrin aldehyde	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Endrin ketone	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
g-BHC	ND	1.4	ug/Kg	2	10/31/18	CW	SW8081B
Heptachlor	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Heptachlor epoxide	ND	7.2	ug/Kg	2	10/31/18	CW	SW8081B
Methoxychlor	ND	36	ug/Kg	2	10/31/18	CW	SW8081B
Toxaphene	ND	140	ug/Kg	2	10/31/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	78		%	2	10/31/18	CW	30 - 150 %
% TCMX	70		%	2	10/31/18	CW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Acenaphthene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Anthracene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Chrysene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Fluoranthene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Fluorene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Naphthalene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Phenanthrene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
Pyrene	ND	250	ug/Kg	1	10/30/18	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	10/30/18	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	10/30/18	WB	30 - 130 %
% Terphenyl-d14	71		%	1	10/30/18	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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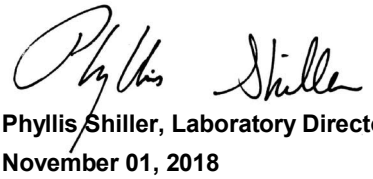

Phyllis Shiller, Laboratory Director
November 01, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 01, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		10/25/18	16:06
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82602
Phoenix ID: CB82608

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-66

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	5.68	0.83	mg/Kg	1	10/28/18	CPP	SW6010C
Lead	11.0	0.42	mg/Kg	1	10/28/18	CPP	SW6010C
Percent Solid	75		%		10/25/18	AK	SW846-%Solid
Soil Extraction for Pesticide	Completed				10/30/18	SA/V	SW3545A
Soil Extraction for Herbicide	Completed				10/25/18	C/D	SW8151A
Total Metals Digest	Completed				10/26/18	B/AG	SW3050B
Chlorinated Herbicides							
2,4,5-T	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4,5-TP (Silvex)	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
2,4-D	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
2,4-DB	ND	2200	ug/Kg	10	10/27/18	CW	SW8151A
Dalapon	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dicamba	ND	110	ug/Kg	10	10/27/18	CW	SW8151A
Dichloroprop	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
Dinoseb	ND	220	ug/Kg	10	10/27/18	CW	SW8151A
QA/QC Surrogates							
% DCAA	51		%	10	10/27/18	CW	30 - 150 %
Pesticides							
4,4' -DDD	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
4,4' -DDE	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
4,4' -DDT	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
a-BHC	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Alachlor	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Aldrin	ND	4.4	ug/Kg	2	10/31/18	CW	SW8081B
b-BHC	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Chlordane	ND	44	ug/Kg	2	10/31/18	CW	SW8081B

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-66

Phoenix I.D.: CB82608

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
d-BHC	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Dieldrin	ND	4.4	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan I	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan II	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Endosulfan sulfate	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Endrin	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Endrin aldehyde	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Endrin ketone	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	10/31/18	CW	SW8081B
Heptachlor	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Heptachlor epoxide	ND	8.7	ug/Kg	2	10/31/18	CW	SW8081B
Methoxychlor	ND	44	ug/Kg	2	10/31/18	CW	SW8081B
Toxaphene	ND	170	ug/Kg	2	10/31/18	CW	SW8081B
QA/QC Surrogates							
% DCBP	86		%	2	10/31/18	CW	30 - 150 %
% TCMX	75		%	2	10/31/18	CW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
November 01, 2018
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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QA/QC Report

November 01, 2018

QA/QC Data

SDG I.D.: GCB82602

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 453916 (mg/kg), QC Sample No: CB82622 (CB82607)													
Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	78.7	83.6	6.0	94.4			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 453736 (mg/kg), QC Sample No: CB82602 (CB82602, CB82603, CB82604, CB82605, CB82606, CB82607, CB82608)													
ICP Metals - Soil													
Arsenic	BRL	0.67	9.93	11.3	12.9	91.1			88.1			75 - 125	30
Barium	BRL	0.33	55.2	52.7	4.60	89.1			91.9			75 - 125	30
Cadmium	BRL	0.33	0.53	0.48	NC	95.6			93.6			75 - 125	30
Chromium	BRL	0.33	12.3	12.9	4.80	95.7			94.1			75 - 125	30
Lead	BRL	0.33	24.3	29.0	17.6	94.6			91.8			75 - 125	30
Selenium	BRL	1.3	<1.5	<1.6	NC	81.3			90.0			75 - 125	30
Silver	BRL	0.33	<0.38	<0.39	NC	87.3			88.6			75 - 125	30

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QA/QC Report

November 01, 2018

QA/QC Data

SDG I.D.: GCB82602

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 453799 (mg/Kg), QC Sample No: CB82092 (CB82603, CB82604, CB82605, CB82606)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	92	83	10.3	96	101	5.1	60 - 120	30	
% n-Pentacosane	38	%	54	51	5.7	60	65	8.0	50 - 150	30	s
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 453946 (mg/Kg), QC Sample No: CB82602 (CB82602)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	75	87	14.8	91	85	6.8	60 - 120	30	
% n-Pentacosane	60	%	73	72	1.4	63	60	4.9	50 - 150	30	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 454296 (mg/Kg), QC Sample No: CB82607 (CB82607)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	79	72	9.3	112	108	3.6	60 - 120	30	
% n-Pentacosane	75	%	77	61	23.2	101	99	2.0	50 - 150	30	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 453514 (ug/Kg), QC Sample No: CB82584 10X (CB82608)											
Chlorinated Herbicides - Soil											
2,4,5-T	ND	83	73	90	20.9	101	91	10.4	40 - 140	30	
2,4,5-TP (Silvex)	ND	83	65	81	21.9	70	81	14.6	40 - 140	30	
2,4-D	ND	170	63	80	23.8	66	71	7.3	40 - 140	30	
2,4-DB	ND	1700	69	86	21.9	87	94	7.7	40 - 140	30	
Dalapon	ND	83	34	44	25.6	39	50	24.7	40 - 140	30	l
Dicamba	ND	83	72	87	18.9	74	86	15.0	40 - 140	30	
Dichloroprop	ND	170	72	86	17.7	83	86	3.6	40 - 140	30	
Dinoseb	ND	170	61	73	17.9	62	85	31.3	40 - 140	30	r
% DCAA (Surrogate Rec)	47	%	47	57	19.2	49	57	15.1	30 - 150	30	
QA/QC Batch 453945 (ug/Kg), QC Sample No: CB82602 2X (CB82602, CB82603, CB82604, CB82606)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	33	83	65	24.3	71	67	5.8	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	95	78	19.7	85	91	6.8	40 - 140	30	

QA/QC Data

SDG I.D.: GCB82602

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	52	%	119	95	22.4	101	109	7.6	30 - 150	30	
% TCMX (Surrogate Rec)	48	%	113	91	21.6	90	95	5.4	30 - 150	30	
QA/QC Batch 454113 (ug/Kg), QC Sample No: CB84211 2X (CB82605)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	33	69	77	11.0	88	77	13.3	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	94	108	13.9	100	86	15.1	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	109	%	118	128	8.1	112	100	11.3	30 - 150	30	
% TCMX (Surrogate Rec)	98	%	100	113	12.2	97	84	14.4	30 - 150	30	
QA/QC Batch 454115 (ug/Kg), QC Sample No: CB84211 2X (CB82607, CB82608)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	80	73	9.2	60	61	1.7	40 - 140	30	
4,4' -DDE	ND	1.7	76	76	0.0	55	55	0.0	40 - 140	30	
4,4' -DDT	ND	1.7	77	72	6.7	64	64	0.0	40 - 140	30	
a-BHC	ND	1.0	79	79	0.0	62	65	4.7	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	79	76	3.9	60	59	1.7	40 - 140	30	
b-BHC	ND	1.0	88	85	3.5	82	50	48.5	40 - 140	30	r
Chlordane	ND	33	80	82	2.5	NC	NC	NC	40 - 140	30	
d-BHC	ND	3.3	81	81	0.0	64	65	1.6	40 - 140	30	
Dieldrin	ND	1.0	75	84	11.3	58	57	1.7	40 - 140	30	
Endosulfan I	ND	3.3	85	79	7.3	62	62	0.0	40 - 140	30	
Endosulfan II	ND	3.3	81	92	12.7	67	65	3.0	40 - 140	30	
Endosulfan sulfate	ND	3.3	75	76	1.3	111	67	49.4	40 - 140	30	r
Endrin	ND	3.3	67	66	1.5	71	68	4.3	40 - 140	30	
Endrin aldehyde	ND	3.3	60	59	1.7	61	60	1.7	40 - 140	30	
Endrin ketone	ND	3.3	85	89	4.6	63	64	1.6	40 - 140	30	
g-BHC	ND	1.0	82	85	3.6	63	64	1.6	40 - 140	30	
Heptachlor	ND	3.3	78	75	3.9	57	58	1.7	40 - 140	30	
Heptachlor epoxide	ND	3.3	83	73	12.8	61	54	12.2	40 - 140	30	
Methoxychlor	ND	3.3	72	81	11.8	63	58	8.3	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	87	%	97	90	7.5	81	76	6.4	30 - 150	30	
% TCMX	84	%	90	81	10.5	69	70	1.4	30 - 150	30	
QA/QC Batch 453801 (ug/kg), QC Sample No: CB82919 (CB82602, CB82603, CB82604, CB82605, CB82606, CB82607)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	70	57	20.5	75	66	12.8	30 - 130	30	
Acenaphthene	ND	230	68	62	9.2	74	73	1.4	30 - 130	30	
Acenaphthylene	ND	230	68	58	15.9	74	67	9.9	30 - 130	30	
Anthracene	ND	230	75	63	17.4	79	72	9.3	30 - 130	30	
Benz(a)anthracene	ND	230	74	65	12.9	79	75	5.2	30 - 130	30	
Benzo(a)pyrene	ND	230	76	64	17.1	81	75	7.7	30 - 130	30	
Benzo(b)fluoranthene	ND	230	79	68	15.0	84	80	4.9	30 - 130	30	

QA/QC Data

SDG I.D.: GCB82602

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(ghi)perylene	ND	230	64	62	3.2	70	72	2.8	30 - 130	30
Benzo(k)fluoranthene	ND	230	76	65	15.6	77	77	0.0	30 - 130	30
Chrysene	ND	230	73	64	13.1	76	74	2.7	30 - 130	30
Dibenz(a,h)anthracene	ND	230	73	66	10.1	80	81	1.2	30 - 130	30
Fluoranthene	ND	230	81	64	23.4	84	73	14.0	30 - 130	30
Fluorene	ND	230	73	64	13.1	80	73	9.2	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	70	64	9.0	79	77	2.6	30 - 130	30
Naphthalene	ND	230	64	55	15.1	68	65	4.5	30 - 130	30
Phenanthrene	ND	230	72	62	14.9	75	71	5.5	30 - 130	30
Pyrene	ND	230	79	64	21.0	85	73	15.2	30 - 130	30
% 2-Fluorobiphenyl	62	%	67	52	25.2	73	60	19.5	30 - 130	30
% Nitrobenzene-d5	63	%	67	50	29.1	73	62	16.3	30 - 130	30
% Terphenyl-d14	64	%	70	52	29.5	76	60	23.5	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
November 01, 2018

Thursday, November 01, 2018

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCB82602 - 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: RUSSO FAMILY PROPERTIES ***Project Number:***

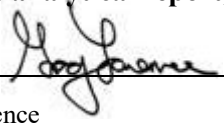
Laboratory Sample ID(s): CB82602-CB82608 ***Sampling Date(s):*** 10/25/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 8082, 8151, 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	***VPH and EPH methods only:*** **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 acheived? See Sections: ETPH Narration, Herbicide 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, November 01, 2018

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 01, 2018

SDG I.D.: GCB82602

SDG Comments

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only Arsenic and Lead are reported as requested on the chain of custody. For Lab ID CB82607 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 453799 (Samples: CB82603, CB82604, CB82605, CB82606): -----

The surrogate recovery in the blank is below the method criteria. All of the other QC recoveries are acceptable. No significant bias is suspected. (% n-Pentacosane)

Instrument:

AU-FID11 10/31/18-1 Jeff Bucko, Chemist 10/31/18

CB82607

The initial calibration (ETPHO17I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 10/29/18-1 Jeff Bucko, Chemist 10/29/18

CB82602, CB82603, CB82604, CB82605, CB82606

The initial calibration (ETPHO12I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 453799 (CB82092)

CB82603, CB82604, CB82605, CB82606

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QC (Site Specific):

Batch 453946 (CB82602)

CB82602

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.

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RCP Certification Report

November 01, 2018

SDG I.D.: GCB82602

ETPH Narration

Batch 454296 (CB82607)

CB82607

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.

Herbicide Narration

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

QC Batch 453514 (Samples: CB82608): -----

The LCS recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Dalapon)

Instrument:

AU-ECD2 10/25/18-1 Carol Wohlmuth, Chemist 10/25/18

CB82608

The initial calibration (HRBO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (HRBO24BI) 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 453514 (CB82584)

CB82608

All LCS recoveries were within 40 - 140 with the following exceptions: Dalapon(34%)
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.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 10/30/18 07:43 Rick Schweitzer, Chemist 10/30/18

CB82607

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
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.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

November 01, 2018

SDG I.D.: GCB82602

Mercury Narration

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 453916 (CB82622)

CB82607

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 10/27/18 10:29 Cindy Pearce, Chemist 10/27/18

CB82602, CB82603, CB82604, CB82605, CB82606, CB82607, CB82608

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 453736 (CB82602)

CB82602, CB82603, CB82604, CB82605, CB82606, CB82607, CB82608

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD24 10/31/18-1 Adam Werner, Chemist 10/31/18

CB82603, CB82604, CB82605, CB82606

The initial calibration (PC1024AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC1024BI) 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 10/30/18-1 Adam Werner, Chemist 10/30/18

CB82602

The initial calibration (PC1016AI) RSD for the compound list was less than 20% except for the following compounds: None.

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RCP Certification Report

November 01, 2018

SDG I.D.: GCB82602

PCB Narration

The initial calibration (PC1016BI) 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 454113 (CB84211)

CB82605

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 453945 (CB82602)

CB82602, CB82603, CB82604, CB82606

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.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD4 10/31/18-1 Carol Wohlmuth, Chemist 10/31/18

CB82607, CB82608

The initial calibration (PSO30AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO30BI) 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 454115 (CB84211)

CB82607, CB82608

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.

Instrument:

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RCP Certification Report

November 01, 2018

SDG I.D.: GCB82602

SVOA Narration

CHEM05 10/27/18-1 Adam Werner, Chemist 10/27/18

CB82602, CB82603

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 Verification (CHEM05/5_BN_1022):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: Naphthalene 24% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/1027_05-5_BN_1022):
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.

CHEM06 10/29/18-2 Wes Bryon, Chemist 10/29/18

CB82604, CB82605, CB82606, CB82607

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 Verification (CHEM06/6_SPLIT_1009):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/1029_20-6_SPLIT_1009):
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 453801 (CB82919)

CB82602, CB82603, CB82604, CB82605, CB82606, CB82607

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
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%)

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RCP Certification Report

November 01, 2018

SDG I.D.: GCB82602

SVOA Narration

Temperature Narration

The samples were received at 1.4C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

1,4 0006 10

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 39490

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME: Russo Family Properties
PROJECT LOCATION: Windsor, CT
PROJECT NUMBER: 20170277. A20
REPORT TO: Stefanie Wierszchalek
INVOICE TO: ↓
P.O. NO.:
LABORATORY: Phoenix
Sampler's Signature: Scott Faus
Date: 10/25/18

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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	EPH	PAHs	PCBs	As + Pb	Pesticides	RCRA 8 Metals	Herbicides	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $Na(SO_4)_2$	Glass Soil Container (8) oz.	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45u ☐ 10u	Plastic - NaOH, 250 ml	Comments
01					153418 1025-60	5	10/25/18	912	X	X	X	X						1									82602
02					-61			940	X	X	X	X						1									82603
03					-62			1000	X	X	X	X						1									82604
04					-63			~~1002~~ 1046	X	X	X	X						1									82605
05					-64			1040	X	X	X	X						1									No charge
06					-65			1205	X	X			X	X				1									82606
07					-66			1606				X	X		X			1									82607
																											82608

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Scott Faus			
2				
3				
4			10/26/18	18:27

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates ___ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC, Res DEC, I/C DEC
Additional Comments:

Monday, November 05, 2018

Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: RUSSO FAMILY PROPERTIES
Sample ID#s: CB82609 - CB82612

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

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

Analysis Report

November 05, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		10/25/18	17:00
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82609
Phoenix ID: CB82609

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-67

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		10/25/18	AK	SW846-%Solid
Extraction for PCB	Completed				10/25/18	XX/AK	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1221	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1232	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1242	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1248	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1254	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1260	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1262	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1268	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	108		%	2	10/26/18	AW	30 - 150 %
% TCMX	78		%	2	10/26/18	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released 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 05, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		10/25/18	17:14
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82609
Phoenix ID: CB82610

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-68

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		10/25/18	AK	SW846-%Solid
Extraction for PCB	Completed				10/25/18	XX/AK	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1221	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1232	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1242	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1248	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1254	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1260	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1262	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1268	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	106		%	2	10/26/18	AW	30 - 150 %
% TCMX	75		%	2	10/26/18	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released 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 05, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		10/25/18	17:28
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82609
Phoenix ID: CB82611

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-69

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		10/25/18	AK	SW846-%Solid
Extraction for PCB	Completed				10/25/18	XX/AK	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	780	ug/Kg	5	10/26/18	AW	SW8082A
PCB-1221	ND	780	ug/Kg	5	10/26/18	AW	SW8082A
PCB-1232	ND	780	ug/Kg	5	10/26/18	AW	SW8082A
PCB-1242	ND	780	ug/Kg	5	10/26/18	AW	SW8082A
PCB-1248	ND	780	ug/Kg	5	10/26/18	AW	SW8082A
PCB-1254	1800	780	ug/Kg	5	10/26/18	AW	SW8082A
PCB-1260	ND	780	ug/Kg	5	10/26/18	AW	SW8082A
PCB-1262	ND	780	ug/Kg	5	10/26/18	AW	SW8082A
PCB-1268	ND	780	ug/Kg	5	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	131		%	5	10/26/18	AW	30 - 150 %
% TCMX	105		%	5	10/26/18	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released 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 05, 2018

FOR: Attn: Ms. Stephanie Wierszchalek
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	CONCRETE	Collected by:		10/25/18	17:38
Location Code:	F&O	Received by:	B	10/25/18	18:21
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A20				

Laboratory Data

SDG ID: GCB82609
Phoenix ID: CB82612

Project ID: RUSSO FAMILY PROPERTIES
Client ID: 1534181025-70

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		10/25/18	AK	SW846-%Solid
Extraction for PCB	Completed				10/25/18	XX/AK	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1221	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1232	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1242	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1248	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1254	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1260	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1262	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
PCB-1268	ND	330	ug/Kg	2	10/26/18	AW	SW8082A
QA/QC Surrogates							
% DCBP	111		%	2	10/26/18	AW	30 - 150 %
% TCMX	83		%	2	10/26/18	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
November 05, 2018
Reviewed and Released 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

November 05, 2018

QA/QC Data

SDG I.D.: GCB82609

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 453551 (ug/Kg), QC Sample No: CB82399 10X (CB82609, CB82610, CB82611, CB82612)										
Polychlorinated Biphenyls										
PCB-1016	ND	170	85	84	1.2				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	96	89	7.6				40 - 140	30
PCB-1262	ND	170							40 - 140	30
PCB-1268	ND	170							40 - 140	30
% DCBP (Surrogate Rec)	89	%	102	98	4.0				30 - 150	30
% TCMX (Surrogate Rec)	89	%	101	83	19.6				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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 05, 2018

Monday, November 05, 2018

Criteria: CT: GBM, I/C, RC

State: CT

Sample Criteria Exceedances Report

GCB82609 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB82611	$PCB_SOXR	PCB-1254	CT / Requested PCB RL /	1800	780	1000	1000	ug/Kg
CB82611	$PCB_SOXR	PCB-1254	CT / RSR DEC RES (mg/kg) / Pest/PCB/TPH	1800	780	1000	1000	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: RUSSO FAMILY PROPERTIES ***Project Number:***

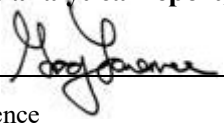
Laboratory Sample ID(s): CB82609-CB82612 ***Sampling Date(s):*** 10/25/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8082

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	***VPH and EPH methods only:*** **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 CTDEP Reasonable Confidence Protocol documents achieved?**	☑ 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, November 05, 2018

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 05, 2018

SDG I.D.: GCB82609

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD3 10/26/18-1 Adam Werner, Chemist 10/26/18

CB82609, CB82610, CB82611, CB82612

The initial calibration (PC911AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PC911BI) 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 453551 (CB82399)

CB82609, CB82610, CB82611, CB82612

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.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Temperature Narration

The samples were received at 1.4C 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
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

1.4 acclp

CHAIN-OF-CUSTODY RECORD 39489

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME: Russo Family Properties
PROJECT LOCATION: Windsor, CT
PROJECT NUMBER: 20170277.A20
LABORATORY: Phoenix

REPORT TO: Stefanie Wierszchalek
INVOICE TO: ↓
P.O. NO.:

Sampler's Signature: Sarah Fars Date: 10/25/18

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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PCBs	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $NaHSO_4$	Glass Soil Container (4) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					153418102S-67	C	10/25/18	1700	X			1									82609
02					-68			1714	X			1									82610
03					-69			1725	X			1									82611
04					-70			1738	X			1									82612

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Sarah Fars			
2			10/25/18	18:12
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC, ResDEC, I/C DEC
Additional Comments:

Wednesday, November 07, 2018

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

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Sample ID#s: CB84316 - CB84322

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 have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

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

NY # 11301

SDG Comments

November 07, 2018

SDG I.D.: GCB84316

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, this compound is 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

Analysis Report

November 07, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	SF	10/29/18	10:22
Location Code:	F&O	Received by:	SW	10/29/18	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB84316
Phoenix ID: CB84316

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-71

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	10/31/18	EK	SW6010C
Barium (Dissolved)	0.045	0.002	mg/L	1	10/31/18	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Chromium (Dissolved)	0.004	0.001	mg/L	1	10/31/18	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	10/31/18	RS	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	10/31/18	EK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	10/31/18	EK	SW6010C
Mercury Dissolved Digestion	Completed				10/31/18	Q/Q	SW7470A
Extraction for Pest (2 Liter)	Completed				10/29/18	U/N	SW3510C
Semi-Volatile Extraction	Completed				10/29/18	P/R	SW3520C
Dissolved Metals Preparation	Completed				10/30/18	AG	SW3005A
Pesticides							
4,4' -DDD	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
a-BHC	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Alachlor	ND	0.075	ug/L	1	10/30/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	10/30/18	CW	SW8081B
Chlordane	ND	0.30	ug/L	1	10/30/18	CW	SW8081B
d-BHC	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
Endosulfan I	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endosulfan II	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endrin	ND	0.050	ug/L	1	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin Aldehyde	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endrin ketone	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Heptachlor	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	10/30/18	CW	SW8081B
Toxaphene	ND	1.0	ug/L	1	10/30/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	90		%	1	10/30/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	111		%	1	10/30/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	11/01/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Acetone	ND	25	ug/L	1	11/01/18	HM	SW8260
Acrylonitrile	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Benzene	ND	0.70	ug/L	1	11/01/18	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Bromoform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/01/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Trichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	11/01/18	HM	70 - 130 %
% Bromofluorobenzene	89		%	1	11/01/18	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	11/01/18	HM	70 - 130 %
% Toluene-d8	100		%	1	11/01/18	HM	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-71

Phoenix I.D.: CB84316

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	10/30/18	HM	30 - 130 %
% Nitrobenzene-d5	66		%	1	10/30/18	HM	30 - 130 %
% Terphenyl-d14	74		%	1	10/30/18	HM	30 - 130 %

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 07, 2018
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

November 07, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	SF	10/29/18	10:30
Location Code:	F&O	Received by:	SW	10/29/18	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB84316
Phoenix ID: CB84317

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-72

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	10/31/18	EK	SW6010C
Barium (Dissolved)	0.045	0.002	mg/L	1	10/31/18	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	10/31/18	RS	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	10/31/18	EK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	10/31/18	EK	SW6010C
Mercury Dissolved Digestion	Completed				10/31/18	Q/Q	SW7470A
Extraction for Pest (2 Liter)	Completed				10/29/18	U/N	SW3510C
Semi-Volatile Extraction	Completed				10/29/18	P/R	SW3520C
Dissolved Metals Preparation	Completed				10/30/18	AG	SW3005A
Pesticides							
4,4' -DDD	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDE	ND	0.005	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDT	ND	0.005	ug/L	1	10/30/18	CW	SW8081B
a-BHC	ND	0.026	ug/L	1	10/30/18	CW	SW8081B
Alachlor	ND	0.079	ug/L	1	10/30/18	CW	SW8081B
Aldrin	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	10/30/18	CW	SW8081B
Chlordane	ND	0.053	ug/L	1	10/30/18	CW	SW8081B
d-BHC	ND	0.026	ug/L	1	10/30/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
Endosulfan I	ND	0.053	ug/L	1	10/30/18	CW	SW8081B
Endosulfan II	ND	0.053	ug/L	1	10/30/18	CW	SW8081B
Endosulfan Sulfate	ND	0.053	ug/L	1	10/30/18	CW	SW8081B
Endrin	ND	0.053	ug/L	1	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin Aldehyde	ND	0.053	ug/L	1	10/30/18	CW	SW8081B
Endrin ketone	ND	0.053	ug/L	1	10/30/18	CW	SW8081B
g-BHC (Lindane)	ND	0.026	ug/L	1	10/30/18	CW	SW8081B
Heptachlor	ND	0.026	ug/L	1	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	0.026	ug/L	1	10/30/18	CW	SW8081B
Methoxychlor	ND	0.11	ug/L	1	10/30/18	CW	SW8081B
Toxaphene	ND	0.21	ug/L	1	10/30/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	106		%	1	10/30/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	89		%	1	10/30/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	11/01/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Acetone	ND	25	ug/L	1	11/01/18	HM	SW8260
Acrylonitrile	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Benzene	ND	0.70	ug/L	1	11/01/18	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Bromoform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-72

Phoenix I.D.: CB84317

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/01/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Trichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	11/01/18	HM	70 - 130 %
% Bromofluorobenzene	87		%	1	11/01/18	HM	70 - 130 %
% Dibromofluoromethane	99		%	1	11/01/18	HM	70 - 130 %
% Toluene-d8	97		%	1	11/01/18	HM	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-72

Phoenix I.D.: CB84317

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	10/30/18	HM	30 - 130 %
% Nitrobenzene-d5	67		%	1	10/30/18	HM	30 - 130 %
% Terphenyl-d14	76		%	1	10/30/18	HM	30 - 130 %

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 07, 2018
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

November 07, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	SF	10/29/18	11:57
Location Code:	F&O	Received by:	SW	10/29/18	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB84316
Phoenix ID: CB84318

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-73

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	10/31/18	EK	SW6010C
Barium (Dissolved)	0.120	0.002	mg/L	1	10/31/18	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	10/31/18	RS	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	10/31/18	EK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	10/31/18	EK	SW6010C
Mercury Dissolved Digestion	Completed				10/31/18	Q/Q	SW7470A
Extraction for Pest (2 Liter)	Completed				10/29/18	U/N	SW3510C
Semi-Volatile Extraction	Completed				10/29/18	P/R	SW3520C
Dissolved Metals Preparation	Completed				10/30/18	AG	SW3005A
Pesticides							
4,4' -DDD	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
a-BHC	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Alachlor	ND	0.075	ug/L	1	10/30/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	10/30/18	CW	SW8081B
Chlordane	ND	0.30	ug/L	1	10/30/18	CW	SW8081B
d-BHC	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
Endosulfan I	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endosulfan II	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endrin	ND	0.050	ug/L	1	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin Aldehyde	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endrin ketone	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Heptachlor	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	10/30/18	CW	SW8081B
Toxaphene	ND	1.0	ug/L	1	10/30/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	94		%	1	10/30/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	76		%	1	10/30/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	11/01/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Acetone	ND	25	ug/L	1	11/01/18	HM	SW8260
Acrylonitrile	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Benzene	ND	0.70	ug/L	1	11/01/18	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Bromoform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/01/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Trichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	11/01/18	HM	70 - 130 %
% Bromofluorobenzene	90		%	1	11/01/18	HM	70 - 130 %
% Dibromofluoromethane	94		%	1	11/01/18	HM	70 - 130 %
% Toluene-d8	95		%	1	11/01/18	HM	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-73

Phoenix I.D.: CB84318

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	10/30/18	HM	30 - 130 %
% Nitrobenzene-d5	69		%	1	10/30/18	HM	30 - 130 %
% Terphenyl-d14	76		%	1	10/30/18	HM	30 - 130 %

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 07, 2018
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

November 07, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	SF	10/29/18	13:12
Location Code:	F&O	Received by:	SW	10/29/18	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB84316
Phoenix ID: CB84319

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-74

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	10/31/18	EK	SW6010C
Barium (Dissolved)	0.196	0.002	mg/L	1	10/31/18	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	10/31/18	RS	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	10/31/18	EK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	10/31/18	EK	SW6010C
Mercury Dissolved Digestion	Completed				10/31/18	Q/Q	SW7470A
Extraction for Pest (2 Liter)	Completed				10/29/18	U/N	SW3510C
Semi-Volatile Extraction	Completed				10/29/18	P/R	SW3520C
Dissolved Metals Preparation	Completed				10/30/18	AG	SW3005A
Pesticides							
4,4' -DDD	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
a-BHC	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Alachlor	ND	0.075	ug/L	1	10/30/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	10/30/18	CW	SW8081B
Chlordane	ND	0.30	ug/L	1	10/30/18	CW	SW8081B
d-BHC	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
Endosulfan I	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endosulfan II	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endrin	ND	0.050	ug/L	1	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin Aldehyde	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endrin ketone	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Heptachlor	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	10/30/18	CW	SW8081B
Toxaphene	ND	1.0	ug/L	1	10/30/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	74		%	1	10/30/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	67		%	1	10/30/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	11/01/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Acetone	ND	25	ug/L	1	11/01/18	HM	SW8260
Acrylonitrile	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Benzene	ND	0.70	ug/L	1	11/01/18	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Bromoform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/01/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Trichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	11/01/18	HM	70 - 130 %
% Bromofluorobenzene	87		%	1	11/01/18	HM	70 - 130 %
% Dibromofluoromethane	108		%	1	11/01/18	HM	70 - 130 %
% Toluene-d8	99		%	1	11/01/18	HM	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Anthracene	0.08	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-74

Phoenix I.D.: CB84319

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	10/30/18	HM	30 - 130 %
% Nitrobenzene-d5	84		%	1	10/30/18	HM	30 - 130 %
% Terphenyl-d14	69		%	1	10/30/18	HM	30 - 130 %

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 07, 2018
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

November 07, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	SF	10/29/18	14:57
Location Code:	F&O	Received by:	SW	10/29/18	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB84316
Phoenix ID: CB84320

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-75

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	10/31/18	EK	SW6010C
Barium (Dissolved)	0.015	0.002	mg/L	1	10/31/18	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	10/31/18	RS	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	10/31/18	EK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	10/31/18	EK	SW6010C
Mercury Dissolved Digestion	Completed				10/31/18	Q/Q	SW7470A
Extraction for Pest (2 Liter)	Completed				10/29/18	U/N	SW3510C
Semi-Volatile Extraction	Completed				10/29/18	P/R	SW3520C
Dissolved Metals Preparation	Completed				10/30/18	AG	SW3005A
Pesticides							
4,4' -DDD	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
a-BHC	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Alachlor	ND	0.075	ug/L	1	10/30/18	CW	SW8081B
Aldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
b-BHC	ND	0.010	ug/L	1	10/30/18	CW	SW8081B
Chlordane	ND	0.30	ug/L	1	10/30/18	CW	SW8081B
d-BHC	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Dieldrin	ND	0.002	ug/L	1	10/30/18	CW	SW8081B
Endosulfan I	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endosulfan II	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endrin	ND	0.050	ug/L	1	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin Aldehyde	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
Endrin ketone	ND	0.050	ug/L	1	10/30/18	CW	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Heptachlor	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	10/30/18	CW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	10/30/18	CW	SW8081B
Toxaphene	ND	1.0	ug/L	1	10/30/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	115		%	1	10/30/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	107		%	1	10/30/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	11/01/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Acetone	ND	25	ug/L	1	11/01/18	HM	SW8260
Acrylonitrile	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Benzene	ND	0.70	ug/L	1	11/01/18	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Bromoform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/01/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Trichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	1	11/01/18	HM	70 - 130 %
% Bromofluorobenzene	86		%	1	11/01/18	HM	70 - 130 %
% Dibromofluoromethane	97		%	1	11/01/18	HM	70 - 130 %
% Toluene-d8	99		%	1	11/01/18	HM	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-75

Phoenix I.D.: CB84320

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	10/30/18	HM	30 - 130 %
% Nitrobenzene-d5	86		%	1	10/30/18	HM	30 - 130 %
% Terphenyl-d14	79		%	1	10/30/18	HM	30 - 130 %

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 07, 2018
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

November 07, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	SF	10/29/18	15:44
Location Code:	F&O	Received by:	SW	10/29/18	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB84316
Phoenix ID: CB84321

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-76

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	10/31/18	EK	SW6010C
Barium (Dissolved)	0.019	0.002	mg/L	1	10/31/18	EK	SW6010C
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	10/31/18	EK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	10/31/18	RS	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	10/31/18	EK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	10/31/18	EK	SW6010C
Mercury Dissolved Digestion	Completed				10/31/18	Q/Q	SW7470A
Extraction for Pest (2 Liter)	Completed				10/29/18	U/N	SW3510C
Semi-Volatile Extraction	Completed				10/29/18	P/R	SW3520C
Dissolved Metals Preparation	Completed				10/30/18	AG	SW3005A
Pesticides							
4,4' -DDD	ND	0.047	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDE	ND	0.047	ug/L	1	10/30/18	CW	SW8081B
4,4' -DDT	ND	0.047	ug/L	1	10/30/18	CW	SW8081B
a-BHC	ND	0.024	ug/L	1	10/30/18	CW	SW8081B
Alachlor	ND	0.071	ug/L	1	10/30/18	CW	SW8081B
Aldrin	ND	0.001	ug/L	1	10/30/18	CW	SW8081B
b-BHC	ND	0.005	ug/L	1	10/30/18	CW	SW8081B
Chlordane	ND	0.28	ug/L	1	10/30/18	CW	SW8081B
d-BHC	ND	0.024	ug/L	1	10/30/18	CW	SW8081B
Dieldrin	ND	0.001	ug/L	1	10/30/18	CW	SW8081B
Endosulfan I	ND	0.047	ug/L	1	10/30/18	CW	SW8081B
Endosulfan II	ND	0.047	ug/L	1	10/30/18	CW	SW8081B
Endosulfan Sulfate	ND	0.047	ug/L	1	10/30/18	CW	SW8081B
Endrin	ND	0.047	ug/L	1	10/30/18	CW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Endrin Aldehyde	ND	0.047	ug/L	1	10/30/18	CW	SW8081B
Endrin ketone	ND	0.047	ug/L	1	10/30/18	CW	SW8081B
g-BHC (Lindane)	ND	0.024	ug/L	1	10/30/18	CW	SW8081B
Heptachlor	ND	0.024	ug/L	1	10/30/18	CW	SW8081B
Heptachlor epoxide	ND	0.024	ug/L	1	10/30/18	CW	SW8081B
Methoxychlor	ND	0.094	ug/L	1	10/30/18	CW	SW8081B
Toxaphene	ND	0.94	ug/L	1	10/30/18	CW	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	79		%	1	10/30/18	CW	30 - 150 %
%TCMX (Surrogate Rec)	89		%	1	10/30/18	CW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	11/01/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	11/01/18	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Acetone	ND	25	ug/L	1	11/01/18	HM	SW8260
Acrylonitrile	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Benzene	ND	0.70	ug/L	1	11/01/18	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Bromoform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	11/01/18	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	11/01/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	11/01/18	HM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	11/01/18	HM	SW8260
Trichloroethene	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	11/01/18	HM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	11/01/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	11/01/18	HM	70 - 130 %
% Bromofluorobenzene	86		%	1	11/01/18	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	11/01/18	HM	70 - 130 %
% Toluene-d8	101		%	1	11/01/18	HM	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-76

Phoenix I.D.: CB84321

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	10/30/18	HM	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	10/30/18	HM	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	10/30/18	HM	30 - 130 %
% Nitrobenzene-d5	86		%	1	10/30/18	HM	30 - 130 %
% Terphenyl-d14	71		%	1	10/30/18	HM	30 - 130 %

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

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 07, 2018
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

November 07, 2018

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	SF	10/29/18	16:00
Location Code:	F&O	Received by:	SW	10/29/18	16:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A20				

Laboratory Data

SDG ID: GCB84316
Phoenix ID: CB84322

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-77

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	10/31/18	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	10/31/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	10/31/18	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	10/31/18	HM	SW8260

Project ID: RIVERFRONT RECAPTURE BUSSO PROPERTIES
Client ID: 1534181029-77

Phoenix I.D.: CB84322

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	10/31/18	HM	SW8260
Acrylonitrile	ND	0.50	ug/L	1	10/31/18	HM	SW8260
Benzene	ND	0.70	ug/L	1	10/31/18	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260
Bromoform	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	10/31/18	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Chloroform	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	10/31/18	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	10/31/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	10/31/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	10/31/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	10/31/18	HM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	10/31/18	HM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	10/31/18	HM	SW8260
Trichloroethene	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	10/31/18	HM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	10/31/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	1	10/31/18	HM	70 - 130 %
% Bromofluorobenzene	89		%	1	10/31/18	HM	70 - 130 %
% Dibromofluoromethane	104		%	1	10/31/18	HM	70 - 130 %

Ver 1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	96		%	1	10/31/18	HM	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
November 07, 2018
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

November 07, 2018

QA/QC Data

SDG I.D.: GCB84316

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 454048 (mg/L), QC Sample No: CB84341 (CB84316, CB84317, CB84318, CB84319, CB84320, CB84321)														
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0003	NC	79.6			73.9			80 - 120	20	m
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 454140 (mg/L), QC Sample No: CB84316 (CB84316, CB84317, CB84318, CB84319, CB84320, CB84321)														
ICP Metals - Dissolved														
Arsenic	BRL	0.004	<0.004	<0.004	NC	91.7			89.5			75 - 125	20	
Barium	BRL	0.002	0.045	0.045	0	95.8			90.9			75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	91.1			85.9			75 - 125	20	
Chromium	BRL	0.001	0.004	<0.001	NC	93.2			89.2			75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	92.6			88.0			75 - 125	20	
Selenium	BRL	0.011	<0.011	<0.011	NC	87.8			85.0			75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	93.4			89.8			75 - 125	20	

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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QA/QC Report

November 07, 2018

QA/QC Data

SDG I.D.: GCB84316

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 454022 (ug/L), QC Sample No: CB83333 (CB84316, CB84317, CB84318, CB84319, CB84320, CB84321)											
Pesticides - Ground Water											
4,4' -DDD	ND	0.003	103	103	0.0				40 - 140	20	
4,4' -DDE	ND	0.003	87	88	1.1				40 - 140	20	
4,4' -DDT	ND	0.003	72	75	4.1				40 - 140	20	
a-BHC	ND	0.002	90	89	1.1				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	88	96	8.7				40 - 140	20	
b-BHC	ND	0.005	95	105	10.0				40 - 140	20	
Chlordane	ND	0.050	94	95	1.1				40 - 140	20	
d-BHC	ND	0.005	74	78	5.3				40 - 140	20	
Dieldrin	ND	0.002	95	96	1.0				40 - 140	20	
Endosulfan I	ND	0.005	104	107	2.8				40 - 140	20	
Endosulfan II	ND	0.005	121	104	15.1				40 - 140	20	
Endosulfan sulfate	ND	0.005	82	82	0.0				40 - 140	20	
Endrin	ND	0.005	111	107	3.7				40 - 140	20	
Endrin aldehyde	ND	0.005	103	95	8.1				40 - 140	20	
Endrin ketone	ND	0.005	66	69	4.4				40 - 140	20	
g-BHC	ND	0.002	97	109	11.7				40 - 140	20	
Heptachlor	ND	0.005	91	92	1.1				40 - 140	20	
Heptachlor epoxide	ND	0.005	113	119	5.2				40 - 140	20	
Methoxychlor	ND	0.005	100	102	2.0				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	76	%	91	91	0.0				30 - 150	20	
% TCMX	76	%	94	101	7.2				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 453999 (ug/L), QC Sample No: CB83673 (CB84316, CB84317, CB84318, CB84319, CB84320, CB84321)											
Semivolatiles by SIM, PAH - Ground Water											
2-Methylnaphthalene	ND	0.05	56	55	1.8				30 - 130	20	
Acenaphthene	ND	0.05	72	51	34.1				30 - 130	20	r
Acenaphthylene	ND	0.04	62	62	0.0				30 - 130	20	
Anthracene	ND	0.02	74	60	20.9				30 - 130	20	r
Benz(a)anthracene	ND	0.02	82	72	13.0				30 - 130	20	
Benzo(a)pyrene	ND	0.02	83	61	30.6				30 - 130	20	r
Benzo(b)fluoranthene	ND	0.02	81	83	2.4				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	70	65	7.4				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	81	76	6.4				30 - 130	20	
Chrysene	ND	0.02	78	71	9.4				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	86	85	1.2				30 - 130	20	
Fluoranthene	ND	0.04	73	64	13.1				30 - 130	20	
Fluorene	ND	0.05	73	63	14.7				30 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Indeno(1,2,3-cd)pyrene	ND	0.02	82	75	8.9				30 - 130	20	
Naphthalene	ND	0.05	47	44	6.6				30 - 130	20	
Phenanthrene	ND	0.05	72	69	4.3				30 - 130	20	
Pyrene	ND	0.02	77	48	46.4				30 - 130	20	r
% 2-Fluorobiphenyl	64	%	62	53	15.7				30 - 130	20	
% Nitrobenzene-d5	71	%	48	41	15.7				30 - 130	20	
% Terphenyl-d14	78	%	82	71	14.4				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 454439 (ug/L), QC Sample No: CB84319 (CB84316, CB84317, CB84318, CB84319, CB84320, CB84321, CB84322)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	101	102	1.0				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	99	100	1.0				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	106	106	0.0				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	94	98	4.2				70 - 130	30	
1,1-Dichloroethane	ND	1.0	95	94	1.1				70 - 130	30	
1,1-Dichloroethene	ND	1.0	95	94	1.1				70 - 130	30	
1,1-Dichloropropene	ND	1.0	96	98	2.1				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	101	104	2.9				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	106	105	0.9				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	98	99	1.0				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	101	96	5.1				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	126	116	8.3				70 - 130	30	
1,2-Dibromoethane	ND	1.0	101	104	2.9				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	99	100	1.0				70 - 130	30	
1,2-Dichloroethane	ND	1.0	97	101	4.0				70 - 130	30	
1,2-Dichloropropane	ND	1.0	91	94	3.2				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	100	97	3.0				70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	100	99	1.0				70 - 130	30	
1,3-Dichloropropane	ND	1.0	96	96	0.0				70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	96	95	1.0				70 - 130	30	
2,2-Dichloropropane	ND	1.0	101	100	1.0				70 - 130	30	
2-Chlorotoluene	ND	1.0	98	95	3.1				70 - 130	30	
2-Hexanone	ND	5.0	107	108	0.9				70 - 130	30	
2-Isopropyltoluene	ND	1.0	102	99	3.0				70 - 130	30	
4-Chlorotoluene	ND	1.0	95	96	1.0				70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	100	102	2.0				70 - 130	30	
Acetone	ND	5.0	97	105	7.9				70 - 130	30	
Acrylonitrile	ND	5.0	97	98	1.0				70 - 130	30	
Benzene	ND	0.70	92	94	2.2				70 - 130	30	
Bromobenzene	ND	1.0	97	97	0.0				70 - 130	30	
Bromochloromethane	ND	1.0	94	93	1.1				70 - 130	30	
Bromodichloromethane	ND	0.50	99	102	3.0				70 - 130	30	
Bromoform	ND	1.0	105	106	0.9				70 - 130	30	
Bromomethane	ND	1.0	77	80	3.8				70 - 130	30	
Carbon Disulfide	ND	1.0	97	94	3.1				70 - 130	30	
Carbon tetrachloride	ND	1.0	101	97	4.0				70 - 130	30	
Chlorobenzene	ND	1.0	96	95	1.0				70 - 130	30	
Chloroethane	ND	1.0	85	87	2.3				70 - 130	30	
Chloroform	ND	1.0	93	93	0.0				70 - 130	30	
Chloromethane	ND	1.0	82	81	1.2				70 - 130	30	

QA/QC Data

SDG I.D.: GCB84316

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	1.0	94	90	4.3				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	95	96	1.0				70 - 130	30
Dibromochloromethane	ND	0.50	109	110	0.9				70 - 130	30
Dibromomethane	ND	1.0	97	100	3.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	102	98	4.0				70 - 130	30
Ethylbenzene	ND	1.0	99	95	4.1				70 - 130	30
Hexachlorobutadiene	ND	0.40	102	99	3.0				70 - 130	30
Isopropylbenzene	ND	1.0	100	98	2.0				70 - 130	30
m&p-Xylene	ND	1.0	97	96	1.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	109	101	7.6				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	96	95	1.0				70 - 130	30
Methylene chloride	ND	1.0	94	94	0.0				70 - 130	30
Naphthalene	ND	1.0	114	110	3.6				70 - 130	30
n-Butylbenzene	ND	1.0	102	99	3.0				70 - 130	30
n-Propylbenzene	ND	1.0	98	95	3.1				70 - 130	30
o-Xylene	ND	1.0	97	98	1.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	101	100	1.0				70 - 130	30
sec-Butylbenzene	ND	1.0	107	104	2.8				70 - 130	30
Styrene	ND	1.0	100	101	1.0				70 - 130	30
tert-Butylbenzene	ND	1.0	102	97	5.0				70 - 130	30
Tetrachloroethene	ND	1.0	93	96	3.2				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	99	98	1.0				70 - 130	30
Toluene	ND	1.0	93	98	5.2				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	97	94	3.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	95	95	0.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	101	101	0.0				70 - 130	30
Trichloroethene	ND	1.0	92	94	2.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	95	96	1.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	99	96	3.1				70 - 130	30
Vinyl chloride	ND	1.0	100	99	1.0				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	103	101	2.0				70 - 130	30
% Bromofluorobenzene	87	%	97	97	0.0				70 - 130	30
% Dibromofluoromethane	96	%	92	97	5.3				70 - 130	30
% Toluene-d8	100	%	97	99	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%.

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 07, 2018

Wednesday, November 07, 2018

Criteria: CT: GWP, RV, SWP

State: CT

Sample Criteria Exceedances Report

GCB84316 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CB84316	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB84316	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB84317	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB84317	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB84318	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB84318	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB84319	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB84319	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB84320	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB84320	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB84321	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB84321	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L
CB84322	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CB84322	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.25	0.05	0.05	ug/L

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Fuss & O'Neill, Inc.

Project Location: RIVERFRONT RECAPTURE BUSSO P ***Project Number:***

Laboratory Sample ID(s): CB84316-CB84322 ***Sampling Date(s):*** 10/29/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 8260, 8270

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	***VPH and EPH methods only:*** **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 acheived? See Sections: Mercury Narration, SVOASIM 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:** Wednesday, November 07, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

November 07, 2018

SDG I.D.: GCB84316

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:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

BLUE 10/30/18 08:49 Emily Kolominskaya, Chemist 10/30/18

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321

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.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 454048 (Samples: CB84316, CB84317, CB84318, CB84319, CB84320, CB84321): -----

LCS and MS recoveries are slightly below the method criteria. A slight low bias is possible (Mercury (Dissolved))

Instrument:

MERLIN 10/31/18 09:03 Rick Schweitzer, Chemist 10/31/18

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
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 454048 (CB84341)

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321

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-

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Certification Report

November 07, 2018

SDG I.D.: GCB84316

Mercury Narration

125%.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD10 10/30/18-1 Carol Wohlmuth, Chemist 10/30/18

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321

The initial calibration (PSO24AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PSO24BI) 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 454022 (CB83333)

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321

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 453999 (Samples: CB84316, CB84317, CB84318, CB84319, CB84320, CB84321): -----

The LCSD recovery is below the method criteria. The LCS is acceptable. A slight low bias is possible. (Acenaphthylene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (Acenaphthene, Benzo(a)pyrene, Pyrene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Anthracene)

Instrument:

CHEM27 10/30/18-2 Harry Mullin, Chemist 10/30/18

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Verification (CHEM27/27_bnSIM_1026):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

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RCP Certification Report

November 07, 2018

SDG I.D.: GCB84316

SVOASIM Narration

Continuing Calibration Verification (CHEM27/1030_07-27_bnSIM_1026):
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 453999 (CB83673)

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321

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: Acenaphthene(34.1%), Anthracene(20.9%), Benzo(a)pyrene(30.6%), Pyrene(46.4%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM15 10/31/18-2 Harry Mullin, Chemist 10/31/18

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321, CB84322

Initial Calibration Verification (CHEM15/VOA15-102918):
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 (CHEM15/1031B30-VOA15-102918):
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: Bromomethane 33%L (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 454439 (CB84319)

CB84316, CB84317, CB84318, CB84319, CB84320, CB84321, CB84322

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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RCP Certification Report

November 07, 2018

SDG I.D.: GCB84316

VOA Narration

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 0.1C 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
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

0.1° WC IP

CHAIN-OF-CUSTODY RECORD 39488

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Riverfront Recapture Russo Properties	Windsor + Hartford, CT	20170277.A20	Phoenix

Report To: Stefanie Wierszchalek
Invoice To:
P.O. No.:
Sampler's Signature: Scott Fraus Date: 10/29/18

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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	PAHs	Pesticides	RCRA 8 Metals	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $NaHSO_4$	Glass Soil Container (__) oz.	Other:	Other:	Water VOA Vial, ☐ As is ☒ HCl	Glass Amber (1000) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☒ Filtered ☒ 0.45µ ☐ 1µ	Plastic - NaOH, 250 ml	Comments
01					153418 1029-71	MW	10/29/18	1022	X	X	X	X						3	3			1		84316 84317
02					-72			1030	X	X	X	X						3	3			1		NC Charge
03					-73			1157	X	X	X	X						3	3			1		84318
04					-74			1312	X	X	X	X						3	3			1		84319
05					-75			1457	X	X	X	X						3	3			1		84320
06					-76			1544	X	X	X	X						3	3			1		84321
07					-77	X		1600	X									2						84322 Trip Blank

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Scott Fraus	Mark Valk	10/29/18	16.43
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)

Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
Res VC, SWPC

Additional Comments:

GCB 843164

Shannon Wilhelm

From: Shannon Wilhelm
Sent: Monday, October 29, 2018 05:05 PM
To: 'SWierszchalek@fando.com'
Subject: question on metals
Attachments: 20181029155643.pdf

Importance: High

Hi Stephanie,
Please see attached regarding samples received today. You have filtered HNO3 bottles checked off but you are not requesting Dissolved metals. Please let me know if you need Total or Dissolved Metals on these. Thank you.

Shannon Wilhelm
Client Services Representative
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester CT 06040
860-645-1102

GCB 843316

Shannon Wilhelm

From: Stefanie Wierszchalek <SWierszchalek@fando.com>
Sent: Tuesday, October 30, 2018 01:31 PM
To: Shannon Wilhelm
Subject: RE: question on metals

Hi Shannon,

Sorry for my delayed response – the samples were filtered with a 0.45 micron filter – therefore the analysis will be dissolved metals.

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
www.fando.com | twitter | facebook | linkedin

From: Shannon Wilhelm [mailto:shannon@phoenixlabs.com]
Sent: Monday, October 29, 2018 5:05 PM
To: Stefanie Wierszchalek <SWierszchalek@fando.com>
Subject: question on metals
Importance: High

Hi Stephanie,
Please see attached regarding samples received today. You have filtered HNO3 bottles checked off but you are not requesting Dissolved metals. Please let me know if you need Total or Dissolved Metals on these. Thank you.

Shannon Wilhelm
Client Services Representative
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester CT 06040
860-645-1102

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,

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	8:32
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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
QA/QC Surrogates							
% 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 %
Volatiles							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

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

Phoenix I.D.: CG54942

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	8:40
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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
QA/QC Surrogates							
% 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 %
Volatiles							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

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

Phoenix I.D.: CG54943

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

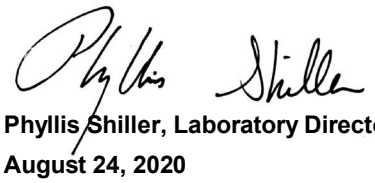
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	8:50
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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
QA/QC Surrogates							
% 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 %
Volatiles							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

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

Phoenix I.D.: CG54944

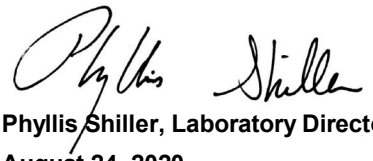
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Benzo(ghi)perylene	270	250	ug/Kg	1	08/18/20	AW	SW8270D
Benzo(k)fluoranthene	290	250	ug/Kg	1	08/18/20	AW	SW8270D
Chrysene	370	250	ug/Kg	1	08/18/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	08/18/20	AW	SW8270D
Fluoranthene	670	250	ug/Kg	1	08/18/20	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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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



Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	9:30
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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 %

Ver 1

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

Phoenix I.D.: CG54945

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Pesticide Comment:
Due to 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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	10:00
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Volatiles							
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

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

Phoenix I.D.: CG54946

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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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
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

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

Phoenix I.D.: CG54946

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

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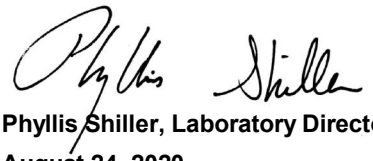

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	10:05
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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

Ver 1

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

Phoenix I.D.: CG54947

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Volatiles							
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

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

Phoenix I.D.: CG54947

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
QA/QC Surrogates							
% 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 %
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	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
QA/QC Surrogates							
% 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
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

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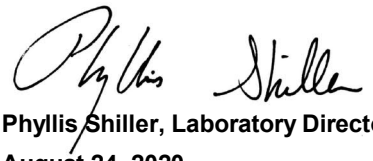

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	10:15
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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 %

Ver 1

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

Phoenix I.D.: CG54948

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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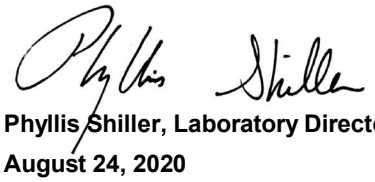

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	10:30
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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 %

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-09

Phoenix I.D.: CG54950

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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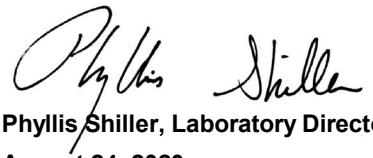

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	10:35
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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

Ver 1

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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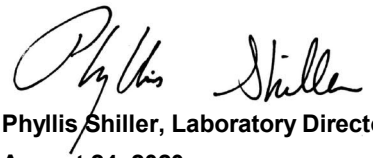

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	10:46
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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 %

Ver 1

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-11

Phoenix I.D.: CG54952

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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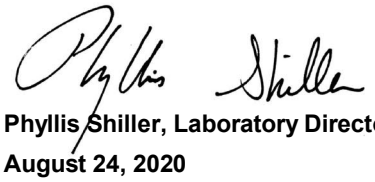

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	11:17
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-13

Phoenix I.D.: CG54954

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Volatiles							
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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-13

Phoenix I.D.: CG54954

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
QA/QC Surrogates							
% 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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-13

Phoenix I.D.: CG54954

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	11:37
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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 %

Ver 1

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-14

Phoenix I.D.: CG54955

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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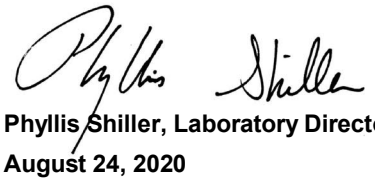

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	12:27
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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 %

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-16

Phoenix I.D.: CG54957

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	12:30
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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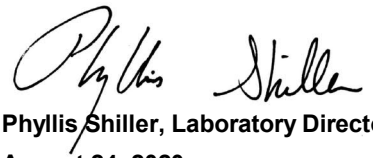

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	13:30
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-18

Phoenix I.D.: CG54959

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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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
QA/QC Surrogates							
% 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 %

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-18

Phoenix I.D.: CG54959

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	13:35
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	13:53
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-20

Phoenix I.D.: CG54961

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Volatiles							
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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-20

Phoenix I.D.: CG54961

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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	14:15
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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 %

Ver 1

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-21

Phoenix I.D.: CG54962

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
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
QA/QC Surrogates							
% 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 %
Volatiles							
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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-21

Phoenix I.D.: CG54962

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
QA/QC Surrogates							
% 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 %

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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

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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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	14:20
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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 %

Ver 1

Project ID: RIVERFRONT/W MSP
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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
PCB (Soxhlet SW3540C)							
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
QA/QC Surrogates							
% 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 %
Volatiles							
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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-22

Phoenix I.D.: CG54963

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
QA/QC Surrogates							
% 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 %

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-22

Phoenix I.D.: CG54963

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	
Semivolatiles							
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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-22

Phoenix I.D.: CG54963

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	14:25
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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
Volatiles							
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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-23

Phoenix I.D.: CG54964

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
QA/QC Surrogates							
% 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 %

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-23

Phoenix I.D.: CG54964

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

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

Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		08/17/20	14:30
Location Code:	F&O	Received by:	SW	08/17/20	16:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277A30				

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
Volatiles							
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

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-24

Phoenix I.D.: CG54965

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 %

Project ID: RIVERFRONT/W MSP
Client ID: 1305200817-24

Phoenix I.D.: CG54965

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

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

Phyllis Shiller, Laboratory Director
August 24, 2020
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
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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 %	LCSD %	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	r
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

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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	r
Chlordane	ND	33	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	

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	l,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	l,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	

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	l,m
% 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	m,r
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	

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

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

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	l
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:***

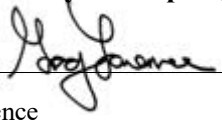
Laboratory Sample ID(s): CG54942-CG54948, CG54950-CG54952, CG54954, CG54955, CG54957-CG54965 ***Sampling Date(s):*** 8/17/2020

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	***VPH and EPH methods only:*** **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 acheived? 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.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

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 frequencey 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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SDG I.D.: GCG54942

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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Certification Report

August 24, 2020

SDG I.D.: GCG54942

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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SDG I.D.: GCG54942

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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August 24, 2020

SDG I.D.: GCG54942

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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SDG I.D.: GCG54942

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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August 24, 2020

SDG I.D.: GCG54942

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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RCP Certification Report

August 24, 2020

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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RCP Certification Report

August 24, 2020

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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RCP Certification Report

August 24, 2020

SDG I.D.: GCG54942

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%

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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-

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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)

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☐ 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

WCIP24.6

☐ Other _____

CHAIN-OF-CUSTODY RECORD 43846

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Riverfront / WMSP	Hartford + Windsor, CT	20170277.A30	Phoenix

REPORT TO: Dan Jahne (F+O)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 8/17/2020

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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	RCRA 8 Metals	Pesticides	PCBs (Soxhlet)	SVOCs (GA SIM)	Paint Filter Reactivity + Corros. Mtry	Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container (8) oz Clear	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (___) ml, ☐ As is ☐ HCl	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
					1305200817-01	S	8/17/20	0832	X		X	X	X						1	2	1								54942
					-02			0840	X		X	X	X						1	2	1								54943
					-03			0850	X		X	X	X						1	2	1								54944
					-04			0930					X								1								54945
					-05			1000	X	X	X	X	X	X					1	2	1								54946
					-06			1005	X	X	X	X	X	X					1	2	1								54947
					-07			1015					X								1								54948
					-08			1020													1								Hold-54949
					-09			1030			X	X	X								1								54950
					-10	↓	↓	1035			X	X	X								1								54951

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	8/17/20	1023
2				
3				
4				

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

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

Additional Comments:

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- [X] 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 _____

WCip24.4

CHAIN-OF-CUSTODY RECORD 44221

Turnaround
- [ ] 24-Hour* [ ] 72-Hour* [ ] Other _____ (days)
- [ ] 48-Hour* [X] Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Riverfront/WMBP	Hartford + Windsor, CT	20170277, A30	Phoenix

REPORT TO: Dan Jahne (F+O)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: Date: 8/17/2020

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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	RCRA 8 metals	Pesticides	PCBs	SVOCs (Soxhlet)	Plant Filter (FASim)	Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container (8) oz	Other	Other	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (___) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
					1305200817-11	S	8/17/20	1046					X																54952
					-12			1047																					Hold 54953
					-13			1117	X	X	X	X	X	X					3	6	3								MS/MSD 54954
					-14			1137					X								1								54955
					-15			1138													1								Hold 54956
					-16			1227			X	X	X								1								54957
					-17			1230			X	X	X								1								54958
					-18			1330			X	X	X								1								54959
					-19			1335			X	X	X								1								54960
					-20			1353	X	X	X	X	X	X					1	2	1								54961

Transfer Number	Relinquished By	Accepted By	Date	Time
1			8/17/20	1923
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: [X] RCP Deliverables ☐ MCP CAM Cert.
GBPMC, ResDEC
Additional Comments:

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☐ 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 _____

WCP24-6

CHAIN-OF-CUSTODY RECORD 44222

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Riverfront / WMSP	Hartford + Windsor, CT	20170277. A30	Phoenix

REPORT TO: Dan Jahne (F to)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 8/17/2020

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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	RCRA 8 Metals	Pesticides	PCBs	SVOCs (Soxhlet)	Paint Filter, Reactivity, Corrosivity	Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☒ water	Glass Soil Container (8 oz) □ $Na(SO_4)_2$ (kar	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (___) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
					13052008 17-21	W	8/17/20	1415	X	X		X		X	X	X	1	2	1									54962
					-22	↓		1420	X	X		X		X	X	X	1	2	1									54963
					-23	X		1425	X								1											54964
					-24	↓	↓	1430	X									2										54965

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	8/17/20	1023
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates 2 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GBPMC, Res DEC
Additional Comments:
* Per Dan Jahne, GA Sim not needed (SJ)

Wednesday, March 03, 2021

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

Project ID: RIVERFRONT LAND INC
SDG ID: GCH69945
Sample ID#s: CH69945 - CH69952

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,

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 03, 2021

SDG I.D.: GCH69945

Project ID: RIVERFRONT LAND INC

Client Id	Lab Id	Matrix
1305210301-01	CH69945	SOIL
1305210301-02	CH69946	SOIL
1305210301-03	CH69947	SOIL
1305210301-04	CH69948	SOIL
1305210301-05	CH69949	SOIL
1305210301-06	CH69950	SOIL
1305210301-07	CH69951	SOIL
1305210301-08	CH69952	SOIL

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

March 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/01/21	8:14
Location Code:	F&O	Received by:	B	03/01/21	14:17
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCH69945
Phoenix ID: CH69945

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		03/01/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/01/21	L/M	SW3545A
Pesticides							
4,4' -DDD	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDE	62	9.0	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDT	60	9.0	ug/Kg	2	03/02/21	AW	SW8081B
a-BHC	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Alachlor	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Aldrin	ND	4.5	ug/Kg	2	03/02/21	AW	SW8081B
b-BHC	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	03/02/21	AW	SW8081B
d-BHC	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan I	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan II	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan sulfate	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Endrin	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Endrin aldehyde	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Endrin ketone	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor epoxide	ND	9.0	ug/Kg	2	03/02/21	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	03/02/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	03/02/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	58		%	2	03/02/21	AW	30 - 150 %
% DCBP (Confirmation)	59		%	2	03/02/21	AW	30 - 150 %

Ver 1

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-01

Phoenix I.D.: CH69945

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	61		%	2	03/02/21	AW	30 - 150 %
% TCMX (Confirmation)	59		%	2	03/02/21	AW	30 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
March 03, 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 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/01/21	8:15
Location Code:	F&O	Received by:	B	03/01/21	14:17
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCH69945
Phoenix ID: CH69946

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		03/01/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/01/21	L/M	SW3545A
Pesticides							
4,4' -DDD	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDE	85	8.6	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDT	85	8.6	ug/Kg	2	03/02/21	AW	SW8081B
a-BHC	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Alachlor	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Aldrin	ND	4.3	ug/Kg	2	03/02/21	AW	SW8081B
b-BHC	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Chlordane	ND	43	ug/Kg	2	03/02/21	AW	SW8081B
d-BHC	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Dieldrin	ND	4.3	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan I	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan II	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan sulfate	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Endrin	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Endrin aldehyde	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Endrin ketone	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
g-BHC	ND	1.7	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor	ND	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor epoxide	13	8.6	ug/Kg	2	03/02/21	AW	SW8081B
Methoxychlor	ND	43	ug/Kg	2	03/02/21	AW	SW8081B
Toxaphene	ND	170	ug/Kg	2	03/02/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	63		%	2	03/02/21	AW	30 - 150 %
% DCBP (Confirmation)	70		%	2	03/02/21	AW	30 - 150 %

Ver 1

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-02

Phoenix I.D.: CH69946

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	76		%	2	03/02/21	AW	30 - 150 %
% TCMX (Confirmation)	73		%	2	03/02/21	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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Phyllis Shiller, Laboratory Director
March 03, 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 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/01/21	8:21
Location Code:	F&O	Received by:	B	03/01/21	14:17
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCH69945
Phoenix ID: CH69947

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		03/01/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/01/21	L/M	SW3545A
Pesticides							
4,4' -DDD	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDE	47	9.1	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDT	47	9.1	ug/Kg	2	03/02/21	AW	SW8081B
a-BHC	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Alachlor	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Aldrin	ND	4.5	ug/Kg	2	03/02/21	AW	SW8081B
b-BHC	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	03/02/21	AW	SW8081B
d-BHC	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan I	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan II	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan sulfate	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endrin	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endrin aldehyde	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endrin ketone	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor epoxide	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	03/02/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	03/02/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	60		%	2	03/02/21	AW	30 - 150 %
% DCBP (Confirmation)	66		%	2	03/02/21	AW	30 - 150 %

Ver 1

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-03

Phoenix I.D.: CH69947

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	66		%	2	03/02/21	AW	30 - 150 %
% TCMX (Confirmation)	66		%	2	03/02/21	AW	30 - 150 %

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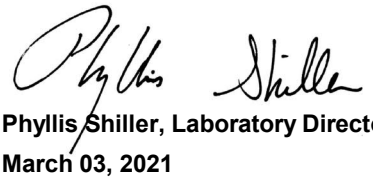

Phyllis Shiller, Laboratory Director
March 03, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/01/21	8:28
Location Code:	F&O	Received by:	B	03/01/21	14:17
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCH69945
Phoenix ID: CH69948

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		03/01/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/01/21	L/M	SW3545A
Pesticides							
4,4' -DDD	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDE	50	9.1	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDT	70	9.1	ug/Kg	2	03/02/21	AW	SW8081B
a-BHC	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Alachlor	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Aldrin	ND	4.5	ug/Kg	2	03/02/21	AW	SW8081B
b-BHC	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Chlordane	ND	45	ug/Kg	2	03/02/21	AW	SW8081B
d-BHC	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Dieldrin	ND	4.5	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan I	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan II	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan sulfate	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endrin	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endrin aldehyde	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Endrin ketone	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
g-BHC	ND	1.8	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor epoxide	ND	9.1	ug/Kg	2	03/02/21	AW	SW8081B
Methoxychlor	ND	45	ug/Kg	2	03/02/21	AW	SW8081B
Toxaphene	ND	180	ug/Kg	2	03/02/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	70		%	2	03/02/21	AW	30 - 150 %
% DCBP (Confirmation)	73		%	2	03/02/21	AW	30 - 150 %

Ver 1

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-04

Phoenix I.D.: CH69948

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	74		%	2	03/02/21	AW	30 - 150 %
% TCMX (Confirmation)	73		%	2	03/02/21	AW	30 - 150 %

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Phyllis Shiller, Laboratory Director
March 03, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

March 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/01/21	8:35
Location Code:	F&O	Received by:	B	03/01/21	14:17
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCH69945
Phoenix ID: CH69949

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	69		%		03/01/21	AN	SW846-%Solid
Soil Extraction for Pesticide	Completed				03/01/21	L/M	SW3545A
Pesticides							
4,4' -DDD	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDE	26	9.4	ug/Kg	2	03/02/21	AW	SW8081B
4,4' -DDT	37	9.4	ug/Kg	2	03/02/21	AW	SW8081B
a-BHC	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Alachlor	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Aldrin	ND	4.7	ug/Kg	2	03/02/21	AW	SW8081B
b-BHC	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Chlordane	ND	47	ug/Kg	2	03/02/21	AW	SW8081B
d-BHC	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Dieldrin	ND	4.7	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan I	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan II	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Endosulfan sulfate	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Endrin	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Endrin aldehyde	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Endrin ketone	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
g-BHC	ND	1.9	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Heptachlor epoxide	ND	9.4	ug/Kg	2	03/02/21	AW	SW8081B
Methoxychlor	ND	47	ug/Kg	2	03/02/21	AW	SW8081B
Toxaphene	ND	190	ug/Kg	2	03/02/21	AW	SW8081B
QA/QC Surrogates							
% DCBP	69		%	2	03/02/21	AW	30 - 150 %
% DCBP (Confirmation)	63		%	2	03/02/21	AW	30 - 150 %

Ver 1

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-05

Phoenix I.D.: CH69949

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% TCMX	80		%	2	03/02/21	AW	30 - 150 %
% TCMX (Confirmation)	73		%	2	03/02/21	AW	30 - 150 %

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Phyllis Shiller, Laboratory Director
March 03, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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Analysis Report

March 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/01/21	9:09
Location Code:	F&O	Received by:	B	03/01/21	14:17
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCH69945
Phoenix ID: CH69950

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	69		%		03/01/21	AN	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				03/01/21	R/M	SW3546
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Acenaphthene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Acenaphthylene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Anthracene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Benz(a)anthracene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(a)pyrene	340	340	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Chrysene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Fluoranthene	380	340	ug/Kg	1	03/02/21	WB	SW8270D
Fluorene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Naphthalene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Phenanthrene	ND	340	ug/Kg	1	03/02/21	WB	SW8270D
Pyrene	410	340	ug/Kg	1	03/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	03/02/21	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	03/02/21	WB	30 - 130 %
% Terphenyl-d14	92		%	1	03/02/21	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
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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

March 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/01/21	9:20
Location Code:	F&O	Received by:	B	03/01/21	14:17
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCH69945
Phoenix ID: CH69951

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	61		%		03/01/21	AN	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				03/01/21	R/M	SW3546
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Acenaphthene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Acenaphthylene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Anthracene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Benz(a)anthracene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(a)pyrene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Chrysene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Fluoranthene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Fluorene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Naphthalene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Phenanthrene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
Pyrene	ND	370	ug/Kg	1	03/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	03/02/21	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	03/02/21	WB	30 - 130 %
% Terphenyl-d14	81		%	1	03/02/21	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
March 03, 2021
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

March 03, 2021

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/01/21	9:25
Location Code:	F&O	Received by:	B	03/01/21	14:17
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

Laboratory Data

SDG ID: GCH69945
Phoenix ID: CH69952

Project ID: RIVERFRONT LAND INC
Client ID: 1305210301-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	70		%		03/01/21	AN	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				03/01/21	R/M	SW3546
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Acenaphthene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Acenaphthylene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Anthracene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Benz(a)anthracene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(a)pyrene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(b)fluoranthene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(ghi)perylene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Benzo(k)fluoranthene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Chrysene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Fluoranthene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Fluorene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Naphthalene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Phenanthrene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
Pyrene	ND	330	ug/Kg	1	03/02/21	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	03/02/21	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	03/02/21	WB	30 - 130 %
% Terphenyl-d14	91		%	1	03/02/21	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
March 03, 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

March 03, 2021

QA/QC Data

SDG I.D.: GCH69945

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 565062 (ug/Kg), QC Sample No: CH70000 2X (CH69945, CH69946, CH69947, CH69948, CH69949)											
Pesticides - Soil											
4,4' -DDD	ND	1.7	113	103	9.3	27	22	20.4	40 - 140	30	m
4,4' -DDE	ND	1.7	105	95	10.0	54	44	20.4	40 - 140	30	
4,4' -DDT	ND	1.7	94	89	5.5	64	51	22.6	40 - 140	30	
a-BHC	ND	1.0	101	89	12.6	67	67	0.0	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	101	88	13.8	74	69	7.0	40 - 140	30	
b-BHC	ND	1.0	108	96	11.8	67	71	5.8	40 - 140	30	
Chlordane	ND	33	99	88	11.8	74	71	4.1	40 - 140	30	
d-BHC	ND	3.3	89	81	9.4	57	58	1.7	40 - 140	30	
Dieldrin	ND	1.0	100	92	8.3	NC	NC	NC	40 - 140	30	
Endosulfan I	ND	3.3	100	90	10.5	68	66	3.0	40 - 140	30	
Endosulfan II	ND	3.3	89	84	5.8	68	69	1.5	40 - 140	30	
Endosulfan sulfate	ND	3.3	95	91	4.3	69	66	4.4	40 - 140	30	
Endrin	ND	3.3	93	83	11.4	71	69	2.9	40 - 140	30	
Endrin aldehyde	ND	3.3	81	76	6.4	57	58	1.7	40 - 140	30	
Endrin ketone	ND	3.3	93	87	6.7	47	44	6.6	40 - 140	30	
g-BHC	ND	1.0	98	85	14.2	95	75	23.5	40 - 140	30	
Heptachlor	ND	3.3	103	89	14.6	69	59	15.6	40 - 140	30	
Heptachlor epoxide	ND	3.3	100	90	10.5	74	65	12.9	40 - 140	30	
Methoxychlor	ND	3.3	86	80	7.2	56	51	9.3	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	72	%	89	77	14.5	65	63	3.1	30 - 150	30	
% DCBP (Confirmation)	75	%	81	74	9.0	74	68	8.5	30 - 150	30	
% TCMX	82	%	100	81	21.0	64	64	0.0	30 - 150	30	
% TCMX (Confirmation)	79	%	94	77	19.9	69	68	1.5	30 - 150	30	
QA/QC Batch 565061 (ug/kg), QC Sample No: CH70000 (CH69950, CH69951, CH69952)											
Semivolatiles - Soil											
2-Methylnaphthalene	ND	230	69			117	89	27.2	40 - 140	30	
Acenaphthene	ND	230	74			125	128	2.4	30 - 130	30	
Acenaphthylene	ND	130	69			74	75	1.3	40 - 140	30	
Anthracene	ND	230	79			175	138	23.6	40 - 140	30	m
Benz(a)anthracene	ND	230	81			NC	NC	NC	40 - 140	30	
Benzo(a)pyrene	ND	130	87			NC	NC	NC	40 - 140	30	
Benzo(b)fluoranthene	ND	160	81			NC	NC	NC	40 - 140	30	
Benzo(ghi)perylene	ND	230	82			121	110	9.5	40 - 140	30	
Benzo(k)fluoranthene	ND	230	77			NC	NC	NC	40 - 140	30	
Chrysene	ND	230	81			NC	NC	NC	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	86			97	95	2.1	40 - 140	30	
Fluoranthene	ND	230	81			NC	NC	NC	40 - 140	30	
Fluorene	ND	230	78			148	126	16.1	40 - 140	30	m
Indeno(1,2,3-cd)pyrene	ND	230	87			NC	NC	NC	40 - 140	30	

QA/QC Data

SDG I.D.: GCH69945

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Naphthalene	ND	230	61			91	94	3.2	40 - 140	30
Phenanthrene	ND	130	77			NC	NC	NC	40 - 140	30
Pyrene	ND	230	80			NC	NC	NC	30 - 130	30
% 2-Fluorobiphenyl	72	%	69			72	73	1.4	30 - 130	30
% Nitrobenzene-d5	64	%	62			69	68	1.5	30 - 130	30
% Terphenyl-d14	87	%	85			92	94	2.2	30 - 130	30

Comment:

This batch consists of a Blank, LCS, MS and MSD.

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%)

m = This parameter is outside laboratory MS/MSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
March 03, 2021

Wednesday, March 03, 2021

Criteria: None

State: CT

Sample Criteria Exceedances Report

GCH69945 - 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:***

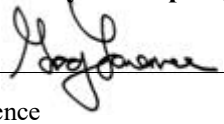
Laboratory Sample ID(s): CH69945-CH69952 ***Sampling Date(s):*** 3/1/2021

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

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	***VPH and EPH methods only:*** **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 CTDEP Reasonable Confidence Protocol documents achieved?**	☑ 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, March 03, 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

March 03, 2021

SDG I.D.: GCH69945

SDG Comments

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

PEST Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-ECD35 03/02/21-1 Adam Werner, Chemist 03/02/21

CH69945 (2X), CH69946 (2X), CH69947 (2X), CH69948 (2X), CH69949 (2X)

The initial calibration (PS0219AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0219BI) 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: CH69946, CH69947
Preceding CC 302B022 - None.
Succeeding CC 302B035 - Methoxychlor -22%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.
Samples: CH69945, CH69948, CH69949
Preceding CC 302B035 - Methoxychlor -22%L (20%)
Succeeding CC 302B049 - Endrin -28%L (20%), Methoxychlor -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.

QC (Batch Specific):

Batch 565062 (CH70000)

CH69945, CH69946, CH69947, CH69948, CH69949

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.

Instrument:

CHEM69 03/01/21-2 Wes Bryon, Chemist 03/01/21

CH69950 (1X), CH69951 (1X), CH69952 (1X)

Initial Calibration Evaluation (CHEM69/69_BN_0211):
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 (CHEM69/0301_03-69_BN_0211):

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

March 03, 2021

SDG I.D.: GCH69945

SVOA Narration

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 565061 (CH70000)

CH69950, CH69951, CH69952

All LCS recoveries were within 40 - 140 with the following exceptions: None.
This batch consists of a Blank, LCS, MS and MSD.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Temperature Narration

The samples were received at 2.8C 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

- [X] 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 _____

2.8° WC IP

CHAIN-OF-CUSTODY RECORD 44449

Turnaround
- [ ] 24-Hour*
- [ ] 72-Hour*
- [ ] Other _____ (days)
- [ ] 48-Hour*
- [X] Standard (____ days)

*Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
RIVERFRONT LAND, INC.	HARTFORD/WINDSOR, CT	20170277.A30	PHOENIX

REPORT TO: STEFANIE NIERSZCHALEK + BRIANNA CHURCH

INVOICE TO: ↓

P.O. NO.:

Sampler's Signature: [signature] Date: 3/1/21

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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PESTICIDES	PAHS	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (4) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					1305210301-01	S	3/1/21	0814	X								1					69945
02					-02	↓	↓	0815	X								↓					69946
03					-03			0821	X													69947
04					-04			0828	X													69948
05					-05			0835	X													69949
06					-06			0909		X												69950
07					-07			0920		X												69951
08					-08	↓	↓	0925		X							↓					69952

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	3/1/21	14:17
2				
3				
4				

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

Reporting and Detection Limit Requirements: [X] RCP Deliverables ☐ MCP CAM Cert.

Additional Comments:

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,

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

NY # 11301

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-01

Phoenix I.D.: CH73111

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-02

Phoenix I.D.: CH73112

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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

Ver 2

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-03

Phoenix I.D.: CH73113

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-04

Phoenix I.D.: CH73114

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polychlorinated Biphenyls							
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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Volatiles							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-04

Phoenix I.D.: CH73114

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
QA/QC Surrogates							
% 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 %
Semivolatiles							
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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-05

Phoenix I.D.: CH73115

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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

Ver 2

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-06

Phoenix I.D.: CH73116

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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

Ver 2

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-07

Phoenix I.D.: CH73117

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-08

Phoenix I.D.: CH73118

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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

Ver 2

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
QA/QC Surrogates							
% 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 %
Pesticides							
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
QA/QC Surrogates							
% 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 %
Polynuclear Aromatic HC							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-09

Phoenix I.D.: CH73119

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
QA/QC Surrogates							
% 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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-10

Phoenix I.D.: CH73120

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-12

Phoenix I.D.: CH73122

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-16

Phoenix I.D.: CH73126

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 %

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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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-18

Phoenix I.D.: CH73128

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
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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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-19

Phoenix I.D.: CH73129

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-21

Phoenix I.D.: CH73131

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-23

Phoenix I.D.: CH73133

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-25

Phoenix I.D.: CH73135

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
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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 %

Ver 2

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-27

Phoenix I.D.: CH73137

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
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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
Volatiles							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-29

Phoenix I.D.: CH73139

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
QA/QC Surrogates							
% 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 %

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-29

Phoenix I.D.: CH73139

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

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Phyllis Shiller, Laboratory Director
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		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/21	8:15
Location Code:	F&O	Received by:	LB	03/05/21	13:35
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	20170277.A30				

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
Volatiles							
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

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-30

Phoenix I.D.: CH73140

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
QA/QC Surrogates							
% 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 %

Project ID: RIVERFRONT LAND, INC.
Client ID: 1305210305-30

Phoenix I.D.: CH73140

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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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

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

Phyllis Shiller, Laboratory Director
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

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	

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	

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	l
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	

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	
Benzidine	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	

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	l,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	l

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	l,m
Carbon Disulfide	ND	250	57	57	0.0	60	65	8.0	70 - 130	30	l,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	l,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	l,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	l
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	l,m
Trichlorotrifluoroethane	ND	250	56	56	0.0	62	65	4.7	70 - 130	30	l,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.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GCH73111

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

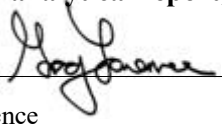
Laboratory Sample ID(s): CH73111-CH73120, ***Sampling Date(s):*** 3/5/2021
CH73122, CH73126, CH73128, CH73129, CH73131, CH73133, CH73135, CH73137, CH73139, CH73140

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	***VPH and EPH methods only:*** **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 acheived? 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.

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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 frequencey 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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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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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%),

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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)

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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
☐ Other _____

4.1° WC
ICE.

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	20170277.A30	PHOENIX

REPORT TO: STEFANIE WIERSZCHALEK + BRIANNA CHURCH
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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH	PAHs	PCBs	RCRA 8 Metals	Pesticides	VOCs	SVOCs	Reactivity, Ignitability, Corrosivity	Soil VOA Vial, ☐ Methanol	Soil VOA Vial, ☐ Water	Glass Soil Container (8) oz ☐ $Na(SO_4)_2$	Other: Glass Soil container 4 oz	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (____) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					1305210305-01	S	3/5/21	0815	X	X	X	X	X								2								73111
02					-02			0830	X	X	X	X	X								2								73112
03					-03			0835	X	X	X	X	X								2								73113
04					-04			0850	X		X	X	X	X	X	X	1	2	2										73114
05					-05			0900	X	X	X	X	X								2								73115
06					-06			0840	X	X	X	X	X								2								73116
07					-07			0945	X	X	X	X	X								2								73117
08					-08			0950	X	X	X	X	X								2								73118
09					-09			1000	X	X	X	X	X								2								73119
10					-10			1012					X									1							73120

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]		3/5/21	
2	[signature]	[signature]	3/5/21	13:30
3				
4				

Charge Exceptions: ☒ CT Tax Exempt ☒ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
Additional Comments:

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 _____

4.10 WC
164

CHAIN-OF-CUSTODY RECORD

44548

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	20170277.A30	PHOENIX

REPORT TO: STEFANIE NIERSZCHALEK + BRIANNA CHURCH
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 _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	TESTING	HOLD FOR ADDTL ANALYSIS	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (4) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (____) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
11					130521 0305-11	S	3/5/21	1013		X								1				73121
12					-12	↓	↓	1017	X									1				73122
13					-13			1018		X								1				73123
14					-14			1027		X								1				73124
15					-15			1028		X								1				73125
16					-16			1033		X								1				73126
17					-17			1057		X								1				73127
18					-18			1058		X								1				73128
19					-19			1105	X									3				MS/MSD 73129
20					-20	↓	↓	1106		X								1				73130

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]		3/5/21	
2	[signature]	[signature]	3/5/21	13:34
3				
4				

Charge Exceptions: ☒ CT Tax Exempt ☒ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
Additional Comments:

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 _____

4.1° WC/Q

CHAIN-OF-CUSTODY RECORD

44549

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	2017.0277.A30	PHOENIX

REPORT TO: STEFANIE WIERZCHALEK + BRIANNA CHURCH
INVOICE TO: ↓
P.O. NO.:
Sampler's 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

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PESTICIDES	HOLD FOR ADDTL ANALYSIS	VOCs	Soil VOA Vial, ☐ Methanol	Soil VOA Vial, ☒ Water	Glass Soil Container (4) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (____) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
21					1305210305-21	S	3/5/21	1113	X										1				73131
22					-22	↓		1114		X									1				73132
23					-23			1116	X										1				73133
24					-24			1117		X									1				73134
25					-25			1120	X										1				73135
26					-26			1121		X									1				73136
27					-27			1124	X										1				73137
28					-28	↓		1125		X									1				73138
29					-29	X		1130			X			1									73139
30					-30	X		1132			X				2									73140

Transfer Number	Relinquished By	Accepted By	Date	Time
1	_____		3/5/21	
2	_____	_____	3/5/21	13:35
3				
4				

Charge Exceptions: ☒ CT Tax Exempt ☒ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP 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
www.fando.com | twitter | facebook | linkedin

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;pbibeau@fando.com;bchurch@fando.com;droseman@fando.com

FUSS & O'NEILL

Appendix D

Groundwater Field Data Sheets

Monitoring Well Sample Log

Low Flow Sampling

Client/Project Name: Riverfront Recapture – Russo Family Property	FUSS & O'NEILL
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A10**
Sample#: 1305180412- 34	**WELL ID: MW-** 04

Purge Data

Date: 4/12/2018

Start time: 1135 **Stop time:** 1226 **Sample time:** 1227

Pump Rate: 200 (ml/m) **Depth Sampled:** ~ 20'

Total time purged: 51 **Sampler:** BSC

Volume Purged: 10 (ltr)

Purge Device: (Dedicated) / Nondedicated **Weather:** 50s clear

Device Type: Bladder / (Peristaltic) / Submersible

Filtered? (N) / Y **Filter Size:** ~~10u~~ / 0.45u **Filtered in:** Field / Lab

Appearance: Clear **PVC:** 13.87

Well Yield: (High) / Moderate / Low / Dry **TPS:** 14.02

Well Diameter: 1" **DTB:** 22.80+0.27=23.07

Comments: InSitu #1: RDO sensor expired

Sample Data

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

Field Parameter Data

Instrument ID#

Solinst 2		HF Sci# 2	InSitu #1				
Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
13.87	1135	←		START	→		
13.89	1140	143.6	9.50	6.29	11.74	148.60	223.8
13.99	1145	196.8	10.22	5.94	11.27	149.22	223.0
13.89	1150	151.3	10.09	5.85	11.23	149.90	223.3
13.90	1155	90.76	10.15	5.80	11.15	148.41	226.9
13.90	1200	58.0	9.85	5.79	11.09	149.21	224.6
13.90	1205	44.11	9.91	5.77	11.20	149.41	222.8
13.90	1210	24.22	10.27	5.78	11.13	149.64	226.3
13.91	1215	18.19	10.28	5.76	10.81	150.92	223.8
13.91	1220	8.19	10.71	5.76	10.57	151.96	223.5
13.91	1225	8.06	10.67	5.76	10.55	153.50	226.8
	1226	←		STOP	→	→	→
	1227	←		SAMPLE	→	→	→
<0.3'		<5 / ± 0.1%	± 10% when > 1	± 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)

DUPE

Monitoring Well Sample Log

Low Flow Sampling

Client/Project Name: Riverfront Recapture – Russo Family Property	
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A10**
Sample#: 1305180412- 35/36	**WELL ID: MW-** 01

FUSS & O'NEILL

Purge Data

Date: 4/12/2018

Start time: 1311 ~~1137~~ **Stop time:** 1357 **Sample time:** 1353/1405

Pump Rate: 200 (ml/m) **Depth Sampled:** ~16'

Total time purged: 46 **Sampler:** BSC

Volume Purged: 9 (ltr)

Purge Device: (Dedicated) / Nondedicated **Weather:** ~~40s~~ 50s overcast

Device Type: Bladder / (Peristaltic) / Submersible

Filtered? (N) / Y **Filter Size:** 10u / 0.45u **Filtered in:** Field / Lab

Appearance: Clear **PVC:** 10.99

Well Yield: (High) / Moderate / Low / Dry **TPS:** 11.80

Well Diameter: 1" **DTB:** 19.35+0.27 = 19.62

Comments:

RDO sensor expired

Sample Data

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

x2

Field Parameter Data

Instrument ID# Solinst 2 | HF Sci# 2 | InSitu#1

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
10.99	1311	←		START	→	→	
11.05	1321	~~35~~.07	7.80	6.54	12.89	339.07	155.7
11.05	1326	28.56	8.04	6.53	13.02	337.17	152.3
11.05	1331	21.35	7.92	6.53	12.96	335.19	148.1
11.06	1336	12.40	7.81	6.52	12.93	334.95	141.5
11.06	1341	12.34	7.80	6.53	12.83	337.32	137.0
11.06	1346	8.36	7.80	6.53	12.83	335.83	133.7
11.06	1351	6.44	7.79	6.51	12.84	333.27	134.5
11.06	1356	3.61	7.78	6.51	12.80	334.79	130.9
	1357	←		~~SAMPLE~~ TOP	→	→	→
	1358	←		SAMPLE	→	→	→
	1405	←	→	SAMPLE	→	→	→

<0.3' | <5 / ± 0.1% | ± 10% when > 1 | ± 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: Riverfront Recapture – Russo Family Property	FUSS & O'NEILL
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A10**
Sample#: 1305180412- 37	**WELL ID: MW- 02**

Purge Data

Date: 4/12/2018

Start time: 1511 **Stop time:** 1537 **Sample time:** 1538

Pump Rate: 200 (ml/m) **Depth Sampled:** ~16'

Total time purged: 26 **Sampler:** BSC

Volume Purged: 5 (ltr)

Purge Device: (Dedicated) / Nondedicated **Weather:** 50s, overcast

Device Type: Bladder / (Peristaltic) / Submersible

Filtered? (N) / Y **Filter Size:** ~~10u~~ / 0.45u **Filtered in:** Field / Lab

Appearance: Clear **PVC:** 12.19

Well Yield: (High) / Moderate / Low / Dry **TPS:** 12.38

Well Diameter: 1" **DTB:** 19.06 + 0.27 = 19.33

Comments:

RDO sensor expired

Sample Data

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

Field Parameter Data

Instrument ID# Solinst2 | HF Sci# 2 | In Situ#1

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
12.19	1511			START			
12.89	1521	36.28	4.93	6.40	13.52	395.37	38.0
13.03	1526	25.23	4.79	6.42	13.60	397.43	3.1
13.17	1531	7.16	4.78	6.44	13.43	400.94	-26.9
13.20	1536	4.39	4.79	6.46	13.44	405.84	-40.3
	1537			STOP			
	1538			SAMPLE			

<0.3' | <5 / ± 0.1% | ± 10% when > 1 | ± 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: Riverfront Recapture – Russo Family Property	
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A10**
Sample#: 1305180412- 38	**WELL ID: MW- 03**

FUSS & O'NEILL

Purge Data

Date: 4/12/2018

Start time: 1623 **Stop time:** 1704 **Sample time:** 1706

Pump Rate: 200 (ml/m) **Depth Sampled:** ~11'

Total time purged: 41 **Sampler:** BSC

Volume Purged: 8 (ltr)

Purge Device: (Dedicated) / Nondedicated **Weather:** 40s overcast

Device Type: Bladder / (Peristaltic) / Submersible

Filtered? (N) / Y **Filter Size:** ~~10u~~ / 0.45u **Filtered in:** Field / Lab

Appearance: Clear **PVC:** 7.43

Well Yield: (High) / Moderate / Low / Dry **TPS:** 7.81

Well Diameter: 1" **DTB:** 11.81+0.27 = 12.08

Comments:

RDO sensor expired

Sample Data

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

Field Parameter Data

Instrument ID#

Solinst 2 | HF Sci# 2 | In Situ #1

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
7.43	1623	←		START			→
7.84	1633	167.1	2.39	7.01	9.12	1084.3	187.6
7.85	1638	123.2	1.60	7.00	9.07	1015.3	174.9
7.86	1643	47.52	1.16	6.98	9.11	969.26	164.5
7.87	1648	20.22	0.86	6.96	9.07	938.01	154.0
7.87	1653	12.69	0.67	6.93	9.10	905.01	146.9
7.88	1658	7.87	0.64	6.92	9.16	885.28	142.1
7.88	~~1658~~ 1703	3.36	0.56	6.91	9.15	864.17	137.8
	1704	←		STOP		→	
	1706	←		SAMPLE		→	

<0.3' | <5 / ± 0.1% | ± 10% when > 1 | ± 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: Riverfront Recapture – Russo Family Properties	
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A20**
Sample#: 1534181029-~~01/02~~ -71 /-72(DUP)	**WELL ID: MW-01**

FUSS & O'NEILL

Purge Data

Date: 10/29/2018

Start time: 955 **Stop time:** 1021 **Sample time:** 1022 / 1030
Pump Rate: 200 (ml/m) **Depth Sampled:** ~17'
Total time purged: 26 min **Sampler:** SJF
Volume Purged: 5.2 (ltr)
Purge Device: (Dedicated) / Nondedicated **Weather:** Cloudy, 50s
Device Type: Bladder / (Peristaltic) / Submersible
Filtered? N / (Y) **Filter Size:** 10u / (0.45u) **Filtered in:** (Field) / Lab
Appearance: Clear **PVC:** 11.81
Well Yield: (High) / Moderate / Low / Dry **TPS:** 12.08
Well Diameter: 1.5" **DTB:** 19.76 + 0 = 19.76
Comments:

Sample Data

Container	Quantity	Preservative
VOA	x2 3 NJ	HCl
Amber L	3	As Is
P250	1	HNO3

Field Parameter Data

Instrument ID#

Solinst 1 | HF Sci# 2 | In Situ 1

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
11.81	955	START					
11.88	1005	118.4	7.34	6.58	15.51	250.49	313.0
11.89	1010	57.39	7.17	6.46	15.42	243.67	318.6
11.89	1015	24.03	7.18	6.44	15.42	248.32	321.0
11.89	1020	19.04	7.21	6.43	15.43	249.91	322.7
	1021	STOP					
	1022	SAMPLE					
	1030	SAMPLE DUP					
<0.3'		<5 / ± 0.1%	± 10% when > 1	± 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 little rust
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: Riverfront Recapture – Russo Family Properties	FUSS & O'NEILL
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A20**
Sample#: 1534181029- 73	**WELL ID:** MW-05

Purge Data

Date: 10/29/2018

Start time: 1110 **Stop time:** 1156 **Sample time:** 1157

Pump Rate: 200 (ml/m) **Depth Sampled:** ~20'

Total time purged: 46 min **Sampler:** SJF

Volume Purged: 9.2 (ltr)

Purge Device: Dedicated / Nondedicated **Weather:** Cloudy, 50's

Device Type: Bladder / Peristaltic / Submersible

Filtered? N / (Y) **Filter Size:** 10u / (0.45u) **Filtered in:** (Field) / Lab

Appearance: Clear **PVC:** 17.31

Well Yield: (High) / Moderate / Low / Dry **TPS:** 17.46

Well Diameter: 2" **DTB:** 22.20

Comments:

Sample Data

Container	Quantity	Preservative
VOA	3 ✓✓✓	HCl
Amber L	3 ✓✓✓	As Is
P250	1 ✓	HNO3 /F

Field Parameter Data

Instrument ID# Solinst 1 | HF Sci# 2 | In Situ 2

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
17.31	1110	START					
17.36	~~1130~~ 1140	22.92	3.61	6.69	14.86	620.40	104.7
17.36	1145	9.53	3.69	6.71	14.43	625.32	74.8
17.36	1150	14.10	4.41	6.74	14.06	626.07	85.8
17.36	1155	13.51	4.48	6.74	14.06	625.37	74.8
	1156	STOP					
	1157	SAMPLE					
<0.3'		<5 / ± 0.1%	± 10% when > 1	± 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: Riverfront Recapture – Russo Family Properties	
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A20**
Sample#: 1534181029- 74	**WELL ID:** MW-03

FUSS & O'NEILL

Purge Data

Date: 10/29/2018

Start time: 1240 **Stop time:** 1311 **Sample time:** 1312

Pump Rate: 200 (ml/m) **Depth Sampled:** ~10'

Total time purged: 31 min **Sampler:** SJF

Volume Purged: 6.2 (ltr)

Purge Device: Dedicated / Nondedicated **Weather:** Cloudy, 50's

Device Type: Bladder / Peristaltic / Submersible

Filtered? N (Y) **Filter Size:** 10u / (0.45u) **Filtered in:** (Field) / Lab

Appearance: Clear **PVC:** 7.46

Well Yield: (High) / Moderate / Low / Dry **TPS:** 7.72

Well Diameter: 1.5" **DTB:** 12.08

Comments:

Sample Data

Container	Quantity	Preservative
VOA	3 ✓	HCl
Amber L	3 ✓	As Is
P250	1 ✓	HNO3 F

Field Parameter Data

Instrument ID# Solinst 1 | HF Sci# 2 | In Situ 1

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
7.46	1240	START					✓
8.16	1250	151.0	0.74	6.69	16.98	1,135.7	113.0
8.16	1300	113.0	0.38	6.66	16.99	1,132.1	108.8
8.16	1305	89.71	0.21	6.68	16.75	1,105.9	94.4
8.16	1310	56.47	0.21	6.68	16.63	1,061.9	84.8
	1311	STOP					✓
	1312	SAMPLE					✓
<0.3'		<5 / ± 0.1%	± 10% when > 1	± 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: Riverfront Recapture – Russo Family Properties	
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A20**
Sample#: 1534181029- 75	**WELL ID: MW-06**

FUSS & O'NEILL

Purge Data

Date: 10/29/2018

Start time: 1430 **Stop time:** 1456 **Sample time:** 1457

Pump Rate: 200 (ml/m) **Depth Sampled:** ~16'

Total time purged: 26 min **Sampler:** SJF

Volume Purged: 5.2 (ltr)

Purge Device: (Dedicated) / Nondedicated **Weather:** Cloudy, 50's

Device Type: Bladder / (Peristaltic) / Submersible

Filtered? N / (Y) **Filter Size:** 10u / (0.45u) **Filtered in:** (Field) / Lab

Appearance: Clear **PVC:** 14.67

Well Yield: (High) / Moderate / Low / Dry **TPS:** 15.16

Well Diameter: 2" **DTB:** 18.10 ± 0 = 18.10

Comments:

Sample Data

Container	Quantity	Preservative
VOA	3	HCl
Amber L	3	As Is
P250	1	HNO3 /F

Field Parameter Data

Instrument ID#

Solinst 1 | HF Sci# 2 | In Situ 1

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
14.67	1430	START					
14.81	1440	131.2	4.71	6.96	14.42	188.24	104.3
14.81	1445	91.64	5.44	6.22	14.11	181.63	151.7
14.81	1450	71.38	5.42	6.05	13.89	179.83	194.6
14.81	1455	48.25	5.84	6.16	14.41	166.97	117.0
	1456	STOP					
	1457	SAMPLE					
<0.3'		<5 / ± 0.1%	± 10% when > 1	± 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: Riverfront Recapture – Russo Family Properties	FUSS & O'NEILL
Project Location: Hartford & Windsor, CT	**PROJECT #: 20170277.A20**
Sample#: 1534181029- 76	**WELL ID:** MW-04

Purge Data

Date: 10/29/2018

Start time: 1522 **Stop time:** 1543 **Sample time:** 1544

Pump Rate: 200 (ml/m) **Depth Sampled:** ~20'

Total time purged: **Sampler:** SJF

Volume Purged: (ltr)

Purge Device: Dedicated / Nondedicated **Weather:** Cloudy, 50's

Device Type: Bladder / Peristaltic / Submersible

Filtered? N / (Y) **Filter Size:** 10u / (0.45u) **Filtered in:** (Field) / Lab

Appearance: Clear **PVC:** 16.22

Well Yield: (High) / Moderate / Low / Dry **TPS:** 16.45

Well Diameter: 1.5" **DTB:** 22.03 + 0 = 22.03

Comments:

Sample Data

Container	Quantity	Preservative
VOA	3 ✓✓✓	HCl
Amber L	#3 ✓✓✓	As Is
P250	1 ✓	HNO3 /F

Field Parameter Data

Instrument ID#

Solinst 1 | HF Sci# 2 | Ins. 1

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
16.22	1522	START					
16.22	1532	136.4	5.08	5.73	13.51	284.75	361.9
16.23	1537	40.97	5.14	5.72	13.25	284.54	369.7
16.23	1542	25.25	5.17	5.71	13.34	282.60	376.9
	1543	START					
	1544	SAMPLE					

<0.3'	<5 / ± 0.1%	± 10% when > 1	± 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: RLI and WMSP	FUSS & O'NEILL
Project Location: Hartford and Windsor, CT	PROJECT #: 20170277.A30
Sample#: 1305200826- 01 / 02 (DUP)	WELL ID: MW-05 (RLI)

Purge Data

Date: 8/26/2020

Start time: 1001 Stop time: 1026 Sample time: 1027 / 1042

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

Total time purged: 25 Sampler: BSC

Volume Purged: 5 (ltr)

Purge Device: Dedicated / Nondedicated Weather: 60s, clear

Device Type: Bladder / Peristaltic / Submersible

Filtered? N / Y Filter Size: 10u / 0.45u Filtered in: Field / Lab

Appearance: clear

Well Yield: High / Moderate / Low / Dry PVC: 19.30

Well Diameter: 2" TPS: 19.44

Comments: DTB: 22.00+0 = 22.50

Sample Data

Container	Quantity	Preservative
VOA	✓✓✓ 3 x2	HCl
Amber L	✓✓✓✓ 4	Ice
P250	✓ 1 x2	HNO3

Field Parameter Data

Instrument ID# Solinst HF Sci# 3 InSitu#2

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
19.30	1001	←		START		→	
19.35	1011	8.91	4.71	6.68	15.24	482.4	439.9
19.35	1016	8.23	5.04	6.66	15.02	493.6	495.6
19.36	1021	6.73	4.98	6.65	14.91	498.6	554.8
19.36	1026	3.70	5.03	6.64	14.85	499.1	555.8
	1026	←		STOP		→	
	1027	←	SAMPLE			→	
	1042	←	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: RLI and WMSP	FUSS & O'NEILL
Project Location: Hartford and Windsor, CT	PROJECT #: 20170277.A30
Sample#: 1305200826- 03 (MS|MSD)	WELL ID: MW-01 (RLI)

Purge Data

Date: 8/26/2020

Start time: 1121 Stop time: 1146 Sample time: 1147

Pump Rate: 200 (ml/m) Depth Sampled: ~17'

Total time purged: 25 Sampler: BSC

Volume Purged: 5 (ltr)

Purge Device: Dedicated / Nondedicated Weather: 70s, clear

Device Type: Bladder / Peristaltic / Submersible

Filtered? N / Y Filter Size: 10u / 0.45u Filtered in: Field / Lab

Appearance: clear PVC: 13.07

Well Yield: High / Moderate / Low / Dry TPS: 13.44

Well Diameter: 1.5" DTB: 19.62

Comments:

Sample Data

Container	Quantity	Preservative
VOA	✓✓✓	HCl
Amber L	✓✓✓✓	Ice
P250	✓	HNO3

(x3)

Field Parameter Data

Instrument ID# Solinst HF Sci# 3 In Situ #2

Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
13.07	1121			START			
13.13	1131	30.94	7.89	6.29	17.50	216.4	584.5
13.13	1136	12.73	8.31	6.21	17.18	246.9	601.7
13.13	1141	7.49	8.35	6.20	17.10	257.2	610.9
13.13	1146	2.98	8.30	6.19	17.10	261.2	633.0
	1146			STOP			
	1147			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: RLI and WMSP		FUSS & O'NEILL
Project Location: Hartford and Windsor, CT	**PROJECT #: 20170277.A30**	
Sample#: 1305200826- 04	**WELL ID: MW-06 (RLI)**	

Purge Data

Date: 8/26/2020

Start time: 1324 **Stop time:** 1355 **Sample time:** 1356

Pump Rate: 200 (ml/m) **Depth Sampled:** 17.92

Total time purged: 8 **Sampler:** BSC

Volume Purged: 1 (ltr)

Purge Device: Dedicated / Nondedicated **Weather:** 70s, clear

Device Type: Bladder / Peristaltic / Submersible

Filtered? (N) Y **Filter Size:** 10u / 0.45u **Filtered in:** Field / Lab

Appearance: Clear **PVC:** 17.23

Well Yield: High / (Moderate) / Low / Dry **TPS:** 17.76

Well Diameter: 2" **DTB:** 17.92

Comments: HIGH RECHARGE BUT WATER LEVEL TOO LOW FOR CONTINUOUS SAMPLING.

Sample Data

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

Field Parameter Data

Instrument ID#

Solinst		HF Sci# 3	In Situ #2				
Water Level (ft)	**Time**	**Turbidity (ntu)**	**Dissolved Oxygen (mg/L)**	**pH (S.U.)**	**Temp. (deg C)**	**Specific Conductivity (uS)**	**ORP(mV)**
17.23	1324	←	START		→		
	1325	←	DRY; ALLOW TO RECHARGE				→
17.23	1349	←	START				→
17.49	1350	2.88	7.21	5.35	20.69	144.0	686.6
17.61	1355	0.00	7.30	5.22	15.26	148.8	709.8
	1356	←	SAMPLE				→
	1405	←	DRY (collected 3x VOA, 1x P250, 750 mL)				
			ALLOW TO RECHARGE				
17.23	1411	←	RESUMED SAMPLING				→
	1433	←	DRY; COLLECTED REMAINING SAMPLE VOL.				→
<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: RLI and WMSP	FUSS & O'NEILL
Project Location: Hartford and Windsor, CT	PROJECT #: 20170277.A30
Sample#: 1305200826- 05	WELL ID: MW-04 (RLI)

Purge Data

Date: 8/26/2020

Start time: 1445 Stop time: 1505 Sample time: 1506

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

Total time purged: 20 Sampler: BSC

Volume Purged: 4 (ltr)

Purge Device: (Dedicated) / Nondedicated Weather: 70s, clear

Device Type: Bladder / (Peristaltic) / Submersible

Filtered? (N) / Y Filter Size: 10u / 0.45u Filtered in: Field / Lab

Appearance: Clear PVC: 19.03

Well Yield: (High) / Moderate / Low / Dry TPS: 19.29

Well Diameter: 1.5" DTB: 22.07

Comments:

Sample Data

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

Field Parameter Data

Instrument ID#

Solinst		HF Sci# 3	In Situ #2				
Water Level (ft)	Time	Turbidity (ntu)	Dissolved Oxygen (mg/L)	pH (S.U.)	Temp. (deg C)	Specific Conductivity (uS)	ORP(mV)
19.03	1445	←		START	→		
19.07	1455	8.02	6.75	5.52	14.49	212.5	698.0
19.08	1500	3.72	7.10	5.54	14.42	218.1	770.6
19.08	1505	2.77	7.01	5.54	14.44	223.2	846.9
	1505	←		STOP	→		
	1506	←		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)

FUSS & O'NEILL

Appendix E

Limitations of Work Product

FUSS & O'NEILL

LIMITATIONS OF WORK PRODUCT

This document was prepared for the sole use of Riverfront Recapture, the only intended beneficiaries of our work. Those who may use or rely upon the report and the services (hereafter "work product") performed by Fuss & O'Neill, Inc. and/or its subsidiaries or independent professional associates, subconsultants and subcontractors (collectively the "Consultant") expressly accept the work product upon the following specific conditions.

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4. In preparing its work product, Consultant may have relied on certain information provided by state and local officials and information and representations made by other parties referenced therein, and on information contained in the files of state and/or local agencies made available at the time of the project. To the extent that such files which may affect the conclusions of the work product are missing, incomplete, inaccurate or not provided, Consultant is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, Consultant did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this project. Consultant assumes no responsibility or liability to discover or determine any defects in such information which could result in failure to identify contamination or other defect in, at or near the site. Unless specifically stated in the work product, Consultant assumes no responsibility or liability for the accuracy of drawings and reports obtained, received or reviewed.

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.

10. Ownership and property interests of all documents, including reports, electronic media, drawings and specifications, prepared or furnished by Consultant pursuant to this project are subject to the terms and conditions specified in the contract between the Consultant and Client, whether or not the project is completed.

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.