TASK 210
SUBSURFACE SITE INVESTIGATION REPORT
MERRITT PARKWAY
NEW CANAAN-NORWALK-WESTPORT, CONNECTICUT

ConnDOT Project Numbers: 102-296 and 102-368

Prepared for

State of Connecticut Department of Transportation
Division of Environmental Compliance

Newington, Connecticut

Prepared by

TRC

Windsor, Connecticut

May 2020

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1.0 INTRODUCTION

1.1 Overview

Pursuant to TRC's Connecticut Department of Transportation (ConnDOT) Contract for On-Call Environmental Services, TRC performed a Task 210 Subsurface Site Investigation for the Merritt Parkway Improvements Project located along the northbound and southbound lanes of the Merritt Parkway for approximately 6.5 miles from New Canaan to Westport, Connecticut (Figures 1-1 through 1-4). This investigation was conducted as part of environmental due diligence activities associated with the planned improvements under ConnDOT Project Numbers 102-296 and 102-368. Specifically, this investigation was conducted within or in the immediate vicinity of the project locations.

1.2 Objectives

The primary objectives of this Task 210 site investigation were to:

- Determine soil quality in and immediately adjacent to project areas 102-296 and 102-368; and
- Utilize the soil data to determine how best to manage soil during excavation activities.

The analytical results of the soil sampling conducted as part of this Task 210 have been compared to the numerical criteria set forth in Connecticut's Remediation Standard Regulations (RSRs) in order to determine the relative magnitude of potential impacts. This evaluation of the data will aid in managing the materials encountered during the excavation activities.

1.3 Background

Based on a review of the project plans provided by ConnDOT, the Merritt Parkway Improvements Project includes:

- widening the existing shoulders to eight feet;

- replacing the existing guiderails;
- correcting existing cross slopes;
- removing rock ledges and other fixed objects within the recommended clear zone or protecting it with a guide rail;
- installing a slip-lined concrete curb and gutter system along the median for drainage;
- limited full-depth pavement replacement under bridges and patching of deteriorated areas;
- resurfacing of the roadway;
- installing new drainage; and
- installing a median barrier where the width of the roadway is limited.

The project will encompass an approximately 6.5 mile portion of the Merritt Parkway from New Canaan to Westport, both northbound and southbound. A review of the project plans indicates the maximum depth of excavation across the investigation study area is approximately five feet below grade (ftbg).

1.4 Geologic/Physical Setting

According to information provided on the Surficial Materials Map of Connecticut (Stone, 1992), small sections of the eastern, central, and southern portions of the project areas are underlain with coarse glacial meltwater deposits consisting of sand and gravel. The remainder of the project areas are underlain by glacial ice-laid deposits consisting of till of varied thickness, ranging from thin till to thick till. Areas of thin till are characterized as being less than 10 to15 feet thick and include areas of bedrock outcrops; thick till ranges from 15 feet up to 100 feet thick.

Based on the descriptions of the soil cores collected during the Task 210 field investigation, the site is generally underlain by varying amounts of sand, silt, and gravel which is consistent with the described mapping.

As indicated by the Bedrock Geological Map of Connecticut (Rogers, 1985), bedrock in within the majority of the project areas is comprised of the Trap Falls Formations, which is characterized as gray to silvery, rusty-weathered schist and light gray gneiss, and Ordovician Granitic gneiss, which is characterized as light colored foliated granitic gneiss. Bedrock may

have been encountered during the 210 investigation, as multiple drilling refusals were encountered at approximately 4 ftbg.

Groundwater generally flows from high topographic points to low topographic points, but can also be heavily influenced by aquifer type, depth to bedrock, nearby watercourses, groundwater use (e.g., withdrawal wells), and subsurface structures. Based on the local topography and features, groundwater flow in the region of the investigation study area is expected to be generally to the south. Note that groundwater was not encountered in any boring advanced as part of this 210 Investigation. According to the Connecticut Department of Energy and Environmental Protection (CTDEEP) groundwater classification maps reviewed by TRC, groundwater beneath the project area is classified as "GA". GA classification indicates that groundwater is suitable for direct human consumption without treatment.

Aquifer protection area (APA) maps reviewed by TRC indicate that a short section of the Merritt Parkway intersects an APA just east of Exit 40A. According to the CTDEEP, an APA is defined as any area consisting of well fields, areas of contribution and recharge areas, identified on maps approved by the Commissioner of Environmental Protection pursuant to Section 22a-354b to 22a-354d, inclusive, within which land uses or activities shall be required to comply with regulations adopted pursuant to Section 22a-354p by the municipality where the APA is located.

2.0 TECHNICAL APPROACH

This section of the report summarizes the soil sampling methods employed during the Task 210 field investigation. Observations made in the field are also summarized in this section.

As indicated above, the focus of the Task 210 Subsurface Site Investigation was to characterize soils that will be excavated as part of the planned roadway improvements (shoulder extensions) along the Merritt Parkway Northbound and Southbound in New Canaan, Norwalk, and Westport. Project area 102-296 encompasses both the northbound and southbound roadways of Route 15 from New Canaan to Norwalk until Exit 40B. Project area 102-368 encompasses both the northbound and southbound roadways of Route 15 from Norwalk to Westport. The combined length of the roadway, comprised of the two project areas, is approximately 13 miles. The proposed soil boring locations were selected in order to characterize the soils in the aforementioned project areas to the designed excavation depths. Generally, borings were advanced at a frequency of one every 1,000 feet along the project area, with one every 500 feet in those areas in which larger quantities of surplus soils are anticipated as a result of project operations. Boring locations were then modified in the field as needed based upon accessibility and safety. In total, 75 soil borings were advanced within and immediately adjacent to the areas of projects 102-296 and 102-368.

A total of 75 soil samples (plus five duplicate samples) were collected from the 75 soil borings and submitted to the laboratory for analysis. One field blank of laboratory-provided deionized water and three equipment rinsate blanks were submitted to the laboratory for analysis for quality assurance and quality control purposes. The 75 soil samples and four blanks were submitted to the laboratory the following analyses:

- Volatile Organic Compounds (VOCs) by EPA Method 8260;
- Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270;
- Extractable Total Petroleum Hydrocarbons (ETPH) by CTETPH 8015;
- Pesticides by EPA Method 8081B;
- Total RCRA 8 Metals by EPA Methods 6010/7471; and
  Synthetic Precipitation Leaching Procedure (SPLP) RCRA 8 Metals by EPA Methods 6010/7470.

All samples were analyzed by Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, Connecticut in accordance with Connecticut's Reasonable Confidence Protocols (RCPs).

2.1 Premobilization Activities

Prior to beginning the investigation, TRC provided the global position system (gps) coordinates of each proposed boring location along the entire project area to Cisco Geotechnical LLC (Cisco) of Glastonbury, Connecticut. "Call Before You Dig" (CBYD) was contacted to mark the locations of buried utilities in the areas of the proposed soil borings within project areas 102-296 and 102-368. Based upon the location of each soil boring within a public right-of-way, hiring a private utility mark-out service to conduct a more detailed mark-out was deemed unnecessary. Preliminary activities also included the preparation of a Health and Safety Plan (HASP) to address the field work to be completed as part of this Task 210.

2.2 Soil Boring Program

Methodology

A total of 75 soil borings were advanced April 20, 2020 through April 24, 2020 within the project areas (43 in project area 102-296 and 32 in project area 102-368) by Cisco, under the direct supervision of TRC field personnel. The borings were advanced utilizing a truck-mounted GeoProbe™ Model 5400. Soil cores were collected continuously from the ground surface to a maximum depth of five ftbg. Boring depths at each sample location were pre-established based on the designed excavation depths provided by ConnDOT Construction. The soil boring/sampling locations are shown on the attached plans, designated Figure 2-1 through Figure 2-33.

Each soil core was collected in an acetate Macro-Core® liner and was logged with respect to soil characteristics (i.e., grain size, moisture content and any other physical characteristics) and indications of any potential impacts (e.g., stains and odors). In addition, each core was field-screened using a photo ionization detector (PID).

Based upon PID readings, and the likely zone of impact from potential release mechanisms, discrete VOC aliquots were obtained using a dedicated polyethylene syringe as a soil micro-core sampler. Soil core samples were placed directly into three (3) laboratory-prepared, 40-ml Volatile Organic Analyte (VOAs) vials including one containing 5 milliliters (mls) of methanol and two (2) containing 5 mls of de-ionized water. Sample collection methods were completed in accordance with CTDEEP VOC sampling protocols.

One composite soil sample was collected from each boring and submitted for laboratory analysis. At each boring location, soil from the anticipated excavation depth was homogenized utilizing dedicated/decontaminated stainless-steel bowls and spoons, placed in the appropriate laboratory-supplied sample containers and then placed on ice, in a cooler, for pickup by the laboratory courier.

The probe shoe and Macro-Core® sampler were decontaminated between uses to minimize the potential for cross-contamination. The decontamination was completed by washing with an Alconox and tap water mixture, followed by a tap water rinse and a final deionized water rinse.

Field Observations

Based on the descriptions of the soil cores, the site is underlain primarily by varying amounts of silt, sand, and gravel. Drilling refusal was encountered at the following soil boring locations:

State Project No. 102-296

- SB-42 at ~4 ftbg
- SB-56 at ~4 ftbg

State Project No. 102-368

- SB-07 at ~4 ftbg
- SB-10 at ~4 ftbg
- SB-14 at ~4 ftbg
- SB-65 at ~3.5 ftbg

- SB-70) at ~3.5 ftbg

A soil description / sample summary is provided as Table 1.

As indicated above, each soil core was screened with a PID for volatile organic vapors. No odors, staining, or elevated PID readings were observed in any of the soil cores collected as part of this investigation. PID readings ranged from 0.1 to 3.5 parts per million (ppm).

2.3 Quality Assurance/Quality Control Samples

Quality assurance/quality control (QA/QC) samples were collected as part of the Task 210 Subsurface Site Investigation. In order to determine the effectiveness of the decontamination of the sampling equipment, three equipment rinsate blanks were collected every other day for the duration of this investigation and analyzed for the same analytes as the primary samples submitted on the day of the sampling. The equipment rinsate blanks were collected by pouring laboratory-supplied deionized water over and/or through the sampling equipment used in the collection of the soil samples. The rinse water was then collected into the appropriate laboratory-supplied sample containers. The equipment rinsate blanks associated with the soil sampling program were designated as "EB20200420", "EB20200422", and "EB20200424".

In order to determine the potential influence of site ambient conditions on sampling results, one field blank of laboratory-supplied, deionized water was collected on April 21, 2020 by transferring the water into the appropriate laboratory-supplied sample containers and designated as "FB20200421".

In order to determine the potential presence of VOC contaminants in sample glassware travelling to and from the laboratory, four solvent/trip blank sets were collected and analyzed for VOCs. Each set included two 40 ml VOAs of deionized water and one 40 ml VOA of methanol (prepared and sealed by the laboratory). The solvent/trip blanks associated with the soil sampling program were designated as "TB20200420", "TB20200421", "TB20200422", and "TB20200424".

Duplicate samples are two separate samples taken from the same source. The procedure for collecting a duplicate sample consists of alternating the collection of the sample between the

primary sample container and the duplicate container. As a part of this subsurface site investigation, five duplicate soil samples were collected. The duplicate soil samples collected as part of the sampling program were identified as: SB-11B(0-2), duplicate of the soil sample SB-11(0-2); SB-22B(0-2), duplicate of the soil sample SB-22(0-2); SB-39B(0-4), duplicate of the soil sample SB-39(0-4); SB-52B(0-2), duplicate of the soil sample SB-52(0-2); and SB-71B(0-2.5), duplicate of the soil sample SB-71(0-2.5).

3.0 INVESTIGATION RESULTS

The following sections provide a summary of the analytical results related to the soil sampling conducted within the project areas. A total of 75 soil samples (plus five duplicates) were collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 metals. Based on the total metals results, four of the soil samples were subsequently analyzed for SPLP arsenic and 37 of the soil samples were analyzed for SPLP lead. The soil analytical results are summarized in Table 2.

Although the project site is not subject to the Transfer Act, the Voluntary Cleanup Program, nor the requirements of a Consent Order, for purposes of discussion, the analytical results have been compared to the Connecticut RSRs to evaluate the levels of any detected constituents of concern within the investigated areas to assist in management of excavated soils in a manner consistent with Connecticut regulations. The reported concentrations of contaminants in soils were compared to the Residential Direct Exposure Criteria (RES DEC) and the GA Pollutant Mobility Criteria (PMC) under the RSRs.

3.1 Soil Sample Results

A summary of the soil sample analytical results is presented in Table 2. Copies of the laboratory analytical reports for the soil samples are included as Appendix A. For the purposes of this discussion section, soil sample results will be discussed as they relate to each State project area.

State Project No. 102-296

Soil Sample Locations: SB-17 through SB-59

(43 total sample locations plus three duplicates)

VOCs

As indicated in the results summary in Table 2, two VOC compounds were detected above the laboratory reporting limits in two of the 46 soil samples (including duplicates) collected in the 102-296 project area. Toluene was detected in soil sample SB-30(0-2).

Naphthalene was detected in soil sample SB-39(0-5) and SB-39B (duplicate of SB-39). Each detection is below RSR criteria.

PAHs

As indicated in Table 2, two or more PAH compounds were detected above the laboratory reporting limits in 33 of the 46 soil samples (including duplicates) collected in the 102-296 project area. Several PAHs were detected in soil samples SB-21(0-2), SB-35(0-3), SB-39(0-5), SB-39B (duplicate of SB-39), and SB-41(0-2) at concentrations above both the RES DEC and GA PMC. Though chrysene was detected in soil samples SB-21(0-2), SB-39(0-5), SB-39B (duplicate of SB-39), and SB-41(0-2), no statutory RSR criteria exists for this compound. However, each concentration of chrysene in the four soil samples exceeds the proposed Additional Polluting Substance (APS) GA PMC. Each of the remaining reported PAHs were at concentrations below RSR criteria.

ETPH

As indicated in the results summary in Table 2, ETPH was detected above the laboratory reporting limits in 19 of the 46 soil samples (including duplicates) collected in the 102-296 project area. ETPH was detected at concentrations ranging from 56 milligrams per kilogram (mg/kg) in soil sample SB-32(0-2) to 380 mg/kg in soil sample SB-46(0-2). Each ETPH detection is below RSR criteria.

Pesticides

As indicated in Table 2, one or more of the following pesticides were detected in 39 of the 46 soil samples (including duplicates) collected in the 102-296 project area: dichlorodiphenyl dichloroethane (4,4'-DDD), dichlorodiphenyl dichloroethylene (4,4'-DDE), and dichlorodiphenyl trichloroethane (4,4'-DDT). There are currently no promulgated RSR criteria for these pesticides, however, the detected concentrations of one or more of the pesticides detected in 37 of the 39 soil samples exceed the additional polluting substances (APS) GA PMC as listed in the Connecticut Department of Energy and Environmental Protection (CTDEEP)

document titled, "Request for Approval of Criteria for Additional Polluting Substances and Certain Alternative Criteria" (Rev. 10/12/18).

Total RCRA 8 Metals

As indicated in Table 2, one or more of the following metals were detected above the laboratory reporting limits in all 46 soil samples (including duplicates) collected in the 102-296 project area, as follows:

- Arsenic was detected in each sample at concentrations ranging from 1.3 mg/kg (soil sample SB-39B (duplicate of SB-39(0-5)) to 17.2 mg/kg (soil sample SB-34(0-2));
- Barium was detected in each sample at concentrations ranging from 36.6 mg/kg (soil sample SB-27(0-2)) to 120 mg/kg (soil sample SB-39B (duplicate of SB-39(0-5));
- Cadmium was detected in each sample at concentrations ranging from 0.56 mg/kg (soil sample SB-52(0-2)) to 1.45 mg/kg (soil sample SB-28(0-2));
- Chromium was detected in each sample at concentrations ranging from 10.5 mg/kg (soil sample SB-52(0-2)) to 60 mg/kg (soil sample SB-34(0-2));
- Lead was detected in each sample at concentrations ranging from 7.99 mg/kg (soil sample SB-27(0-2)) to 918 mg/kg (soil sample SB-21(0-2)); and
- Mercury was detected in several samples at concentrations ranging from 0.003 mg/kg (SB-38(0-2) to 0.28 mg/kg (soil sample SB-28(0-2)).

Reported concentrations of arsenic in two soil samples, SB-28(0-2) and SB-34(0-2), collected in the 102-296 project area exceed the RES DEC. Reported concentrations of lead exceed the RES DEC in five soil samples: SB-21(0-2), SB-28(0-2), SB-33(0-2), SB-34(0-2), and SB-48(0-2). Reported concentrations of the remaining RCRA 8 metals, including total barium, cadmium, chromium, and mercury are below the RES DEC.

SPLP RCRA 8 Metals

As indicated in Table 2, leachable concentrations of arsenic were detected in each of the

two soil samples subsequently analyzed for leachable arsenic based on the total metals results. The reported concentrations of leachable arsenic are below the GA PMC. Leachable concentrations of lead were detected in each of 17 soil samples analyzed for leachable lead subsequent to the review of the total metals data. The reported concentrations of leachable lead exceed the GA PMC in each analyzed soil sample.

State Project No. 102-368

Soil Sample Locations: SB-01 through SB-16 & SB-60 through SB-75
(32 total sample locations with two duplicates)

VOCs

VOC compounds were not detected in any of the 34 soil samples (including duplicates) collected in the 102-368 project area.

PAHs

As indicated in Table 2, one or more PAH compounds were detected above the laboratory reporting limits in 27 of the 34 soil samples (including duplicates) collected during this investigation. Each PAH detection is below RSR criteria.

ETPH

As indicated in the results summary in Table 2, ETPH was detected above the laboratory reporting limits in six of the 34 soil samples (including duplicates) collected in the 102-368 project area. ETPH was detected at concentrations ranging from 110 mg/kg in soil sample SB-13(0-2) to 150 mg/kg in soil sample SB-05(0-2). Each ETPH detection is below RSR criteria.

Pesticides

As indicated in Table 2, one or more of the following pesticides were detected in 33 of the 34 soil samples (including duplicates) collected in the 102-368 project area: 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

There are currently no promulgated RSR criteria for these pesticides, however, the detected concentrations of one or more of the pesticides detected in 32 of the 33 soil samples exceed the APS GA PMC as listed in the CTDEEP document titled, "Request for Approval of Criteria for Additional Polluting Substances and Certain Alternative Criteria" (Rev. 10/12/18).

Total RCRA 8 Metals

As indicated in Table 2, one or more of the following metals were detected above the laboratory reporting limits in all 34 soil samples (including duplicates) collected in the 102-368 project area, as follows:

- Arsenic was detected in every sample at concentrations ranging from 2.3 (soil sample SB-62(0-2)) mg/kg) to 38.5 mg/kg (soil sample SB-08(0-2));
- Barium was detected in every sample at concentrations ranging from 48.9 mg/kg (soil sample SB-14(0-2)) to 304 mg/kg (soil sample SB-05(0-2));
- Cadmium was detected in several samples at concentrations ranging from 0.66 mg/kg (soil sample SB-62(0-2)) to 1.85 mg/kg (soil sample SB-05(0-2));
- Chromium was detected in every sample at concentrations ranging from 17.4 mg/kg (soil sample SB-02(0-2.5)) to 32.9 mg/kg (soil sample SB-16(0-2));
- Lead was detected in every sample at concentrations ranging from 51.1 mg/kg (soil sample SB-74(0-3)) to 952 mg/kg (soil sample SB-61(0-2)); and
- Mercury was detected in several samples at concentrations ranging from 0.03 mg/kg (SB-73(0-3)) to 0.1 mg/kg (soil samples SB-05(0-2) and SB-08(0-2)).

Reported concentrations of arsenic exceed the RES DEC in three soil samples: SB-08(0-2), SB-69(0-2.5), and SB-74(0-3). Reported concentrations of lead exceed the RES DEC in five soil samples: SB-05(0-2), SB-08(0-2), SB-09(0-2.5), SB-13(0-2), and SB-61(0-2). Reported concentrations of the remaining RCRA 8 metals including total barium, cadmium, chromium, and mercury are below the RES DEC.

SPLP RCRA 8 Metals Plus

As indicated in Table 2, leachable concentrations of arsenic were detected in each of the two soil samples subsequently analyzed for leachable arsenic based on the total metals results. The reported concentrations of leachable arsenic are below the GA PMC. Leachable concentrations of lead were detected in each of 19 soil samples analyzed for leachable lead subsequent to the review of the total metals data. The reported concentrations of leachable lead exceed the GA PMC in each analyzed soil sample.

3.2 Quality Assurance / Quality Control Sample Results and Data Evaluation

As indicated in Section 2.3, one field blank, three equipment rinsate blanks, four solvent/trip blank sets, and five duplicate samples were submitted to the laboratory as part of this sampling program for quality assurance/quality control purposes. VOCs, PAHS, ETPH, pesticides, and total RCRA 8 metals were not detected above reporting limits in any of the blanks associated with the investigation.

The concentrations of constituents reported in the duplicate soil samples varied only slightly from those detected in the primary samples apart from duplicate sample SB-11B(0-2), SB-39B(0-5), and SB-52B(0-2). Two PAH compounds were detected just above the laboratory reporting limit in soil sample duplicate SB-11B(0-2). PAHs were not detected in SB-11(0-2). Similarly, two PAH compounds were detected just above the laboratory reporting limit in soil sample SB-52B(0-2). PAHs were not detected in SB-52(0-2). Several PAHs in SB-39B(0-5) were lower in concentrations than the primary soil sample SB-39 (0-5). Overall, the minimal variation in the reported constituents indicates that the samples were adequately homogenized in the field and the laboratory's processing of the samples was consistent.

A review of the laboratory data was completed in accordance with Connecticut Data Quality Assessment and Data Usability Evaluation (DQA/DUE) guidance. An analytical data review checklist was completed for each of the seven laboratory reports. No significant issues were observed or described in the laboratory narratives for each report. Therefore, the data is

usable for the intended purpose to aid in soil management for these projects. The analytical data review checklists are included as **Appendix B**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

This investigation was initiated to assess the quality of the shallow soils that will be excavated as part of the construction project that will take place under State project numbers 102-296 and 102-369. Specifically, the results of this investigation will be used to aid in the proper management of excess soils derived from the project, as well as to aid the State and the Contractor in the development of proper worker health and safety measures (as it relates to potential chemical exposure concerns) to be taken while performing the construction activities. The Task 210 investigation scope of work focused on constituents that have been historically detected at elevated concentrations along major roadways including VOCs, PAHs, ETPH, pesticides, and total RCRA 8 metals. This section briefly summaries the findings of the Task 210 investigation activities conducted from April 20, 2020 through April 24, 2020. Also included are recommendations based on these findings/conclusions.

4.1 Soil Sampling Summary

1. The soil borings drilled in the planned areas of Projects 102-296 and 102-368 were advanced utilizing a truck-mounted GeoProbe™ Model 5400. Soil cores were collected continuously from the ground surface to a maximum depth of five ftbg. In general, the site is primarily underlain by varying amounts of sand, silt, and gravel. No field evidence of contamination (i.e., elevated PID measurements, odors, and/or staining) were observed in any of the 75 soil borings.

2. VOCs were detected in two of the 75 soil samples in project area 102-296. Naphthalene and Toluene were detected at low concentrations, below RSR criteria VOCs were not detected in project area 102-368.

   PAHs were detected in 36 of the 75 soil samples but only four soil samples yielded PAH concentrations above RSR criteria in project area 102-296. PAHs are a common byproduct of hydrocarbon combustion, as well as a component of

automobile tires and asphalt pavement, all of which are well-documented contributors of these constituents to road dust and shallow soils located along roadways.

ETPH was detected in 25 of the 75 soil samples (19 in project area 102-296 and six in project area 102-368). While the majority of detections are at lower concentrations, each are likely the resultant accumulation of leaking petroleum and hydrocarbon byproducts associated with heavy traffic usage. All of the detected ETPH concentrations were below RSR criteria.

Chlorinated pesticides were also evaluated as a part of the 210 investigation due to historical detections along major roadways. DDT was widely used in the 1950s and 1960s until banned in the early 1970s. DDT is still commonly detected throughout the State due to its environmental persistence. DDT and/or its analogs DDD and DDE, was detected in 62 of the 75 soil samples at low concentrations, below RSR criteria. As a result, the levels of these compounds are considered reflective of background conditions.

Results from the Task 210 investigation indicate that several metals, including arsenic, barium, cadmium, chromium, and lead, were detected in all 75 soil samples. While these metals are common soil constituents, the detected lead is more likely an artifact from vehicle exhaust due to the historical usage of leaded-gasoline. Arsenic concentrations exceeding the RES DEC of 10 mg/kg were encountered in five of the boring samples (two in project area 102-296 and three in project area 102-368), with a maximum concentration of 38.5 mg/kg. However, based on TRC's experience in Connecticut, such elevated concentrations may still be considered reflective of natural, background soil conditions and are unlikely to be indicative of a discrete release. None of the samples analyzed via SPLP yielded leachable arsenic above the GA PMC. Although lead was detected in all 75 soil samples, only 10 samples exceeded the RES DEC of 400 mg/kg (five in project area 102-296 and five in project

area 102-368), with a maximum concentration of 952 mg/kg. However, 36 of the soil samples subsequently analyzed via SPLP yielded leachable lead above the GA PMC.

3. The Connecticut RSRs have been used for preliminary evaluation of the soil analytical data as these are the only state soil standards available. However, the RSRs do not technically apply to the subject construction project. Further, the RSRs specifically provide exclusions for detected metals, petroleum hydrocarbons, and SVOCs that are encountered in urban settings. Specifically, the RSR regulations state that the direct exposure criteria (per 22a-133k-2(b)(4)) and pollutant mobility criteria (per 22a-133k-2(c)(5)) "do not apply to metals, petroleum hydrocarbons or semi-volatile substances in soil provided such pollution is the result of: (A) An incidental release due to the normal operation of motor vehicles, not including refueling, repair or maintenance of a motor vehicle; or (B) Normal paving and maintenance of a consolidated bituminous concrete surface provided such bituminous concrete surface has been maintained for its intended purpose."

   Further, the CTDEEP Fact Sheet regarding the "Incidental Sources" provides the basis for this exclusion in stating that: "Contaminants that may have accumulated in a widespread manner along the shoulder of a road related to the historical use of leaded gasoline or dust from asphalt and tires may be included as an incidental source;" and "As part of normal operation of properly functioning motor vehicles, certain metals may be present in oil that may occasionally drip or from the flaking of rusting metal components. Therefore, metals have been included as a pollutant in addition to petroleum hydrocarbons and SVOCs."

   In summary, the detected concentrations of one or more of these constituents are not reflective of a discrete contaminant source, are considered to represent widespread background conditions, and are not explicitly subject to regulation. However, it is recommended that this report be provided to the Contractor as an additional source of information for their health and safety program, and to help secure acceptance of the

material that is their responsibility once excavated. The information in this report may also be used by ConnDOT Construction to select suitable locations for temporary and final disposition of any surplus material that is not ultimately managed by the Contractor.

Recommendations

Given the presence of detectable concentrations of VOCs, PAHs, ETPH, pesticides and metals (some of which are in excess of RSR criteria) in the soils within the areas of Projects 102-296 and 102-368, it is recommended that Task 310 – Plans, Specifications and Estimate be prepared for the upcoming project(s) to provide guidance regarding health and safety considerations during construction as well as appropriate management and final disposition of surplus excavated soils.

5.0 REFERENCES

Connecticut Department of Energy and Environmental Protection. 2018. Technical Support Document: Recommended Numeric Criteria for Common Additional Polluting Substances and Certain Alternative Criteria.

Rogers, J. 1985. Bedrock Geological Map of Connecticut. State Geological and Natural History of Connecticut. Scale 1:125,000.

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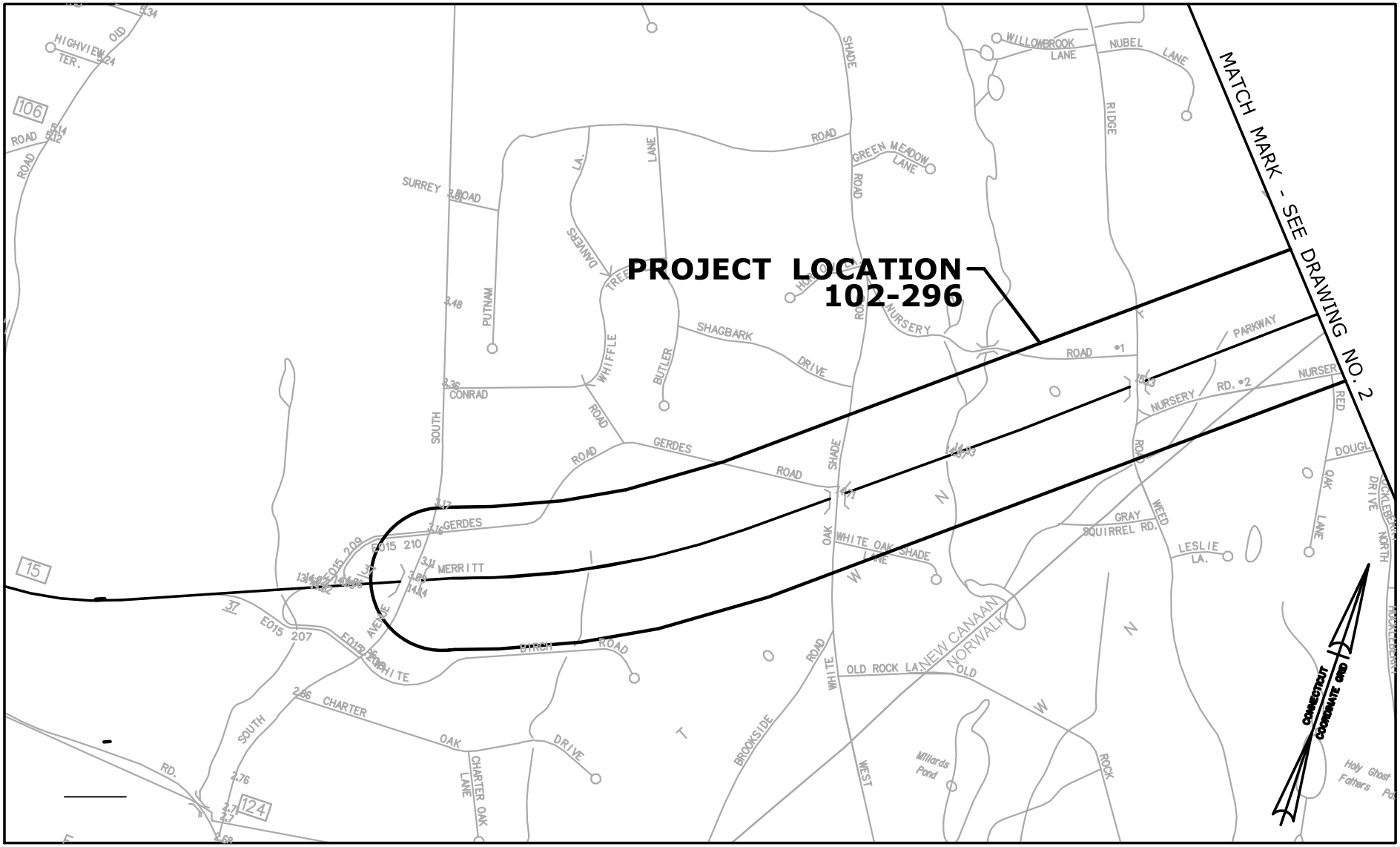
FIGURES



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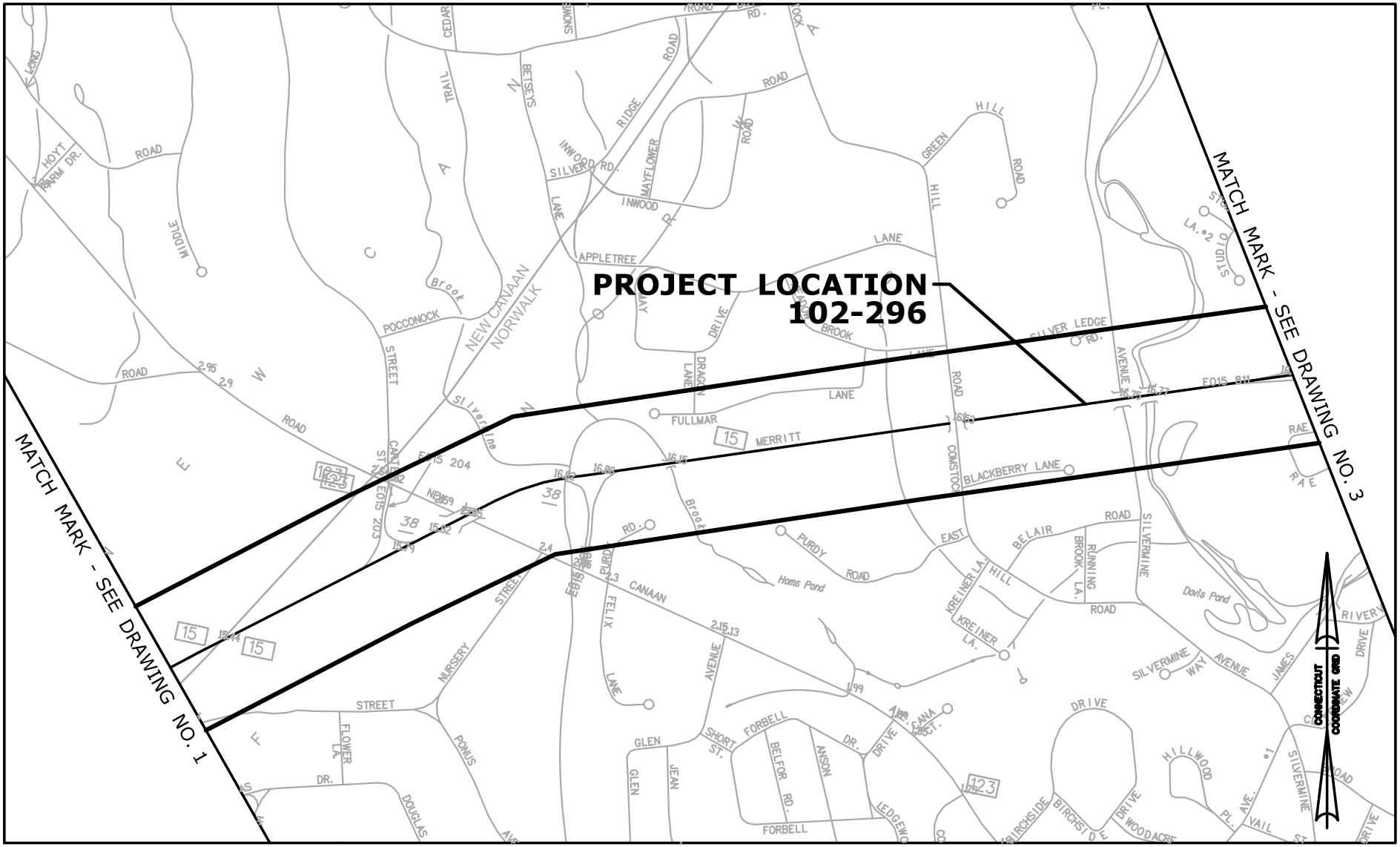
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN -WESTPORT INDEX", PROJECT No. 102-296 & 102-369, DRAWING No. INX-01 THROUGH INX-04 BY OFFICE OF ENGINEERING, DATED 02/2017

STATE PROJECT NO.:		DATE:
102-296 & 102-368	**SITE LOCATION MAP**	MAY 2020
CITY/TOWN: NEW CANAAN, NORWALK & WESTPORT	TRC Project No. 237612.005715.000210	FIGURE 1-1



SCALE IN FEET

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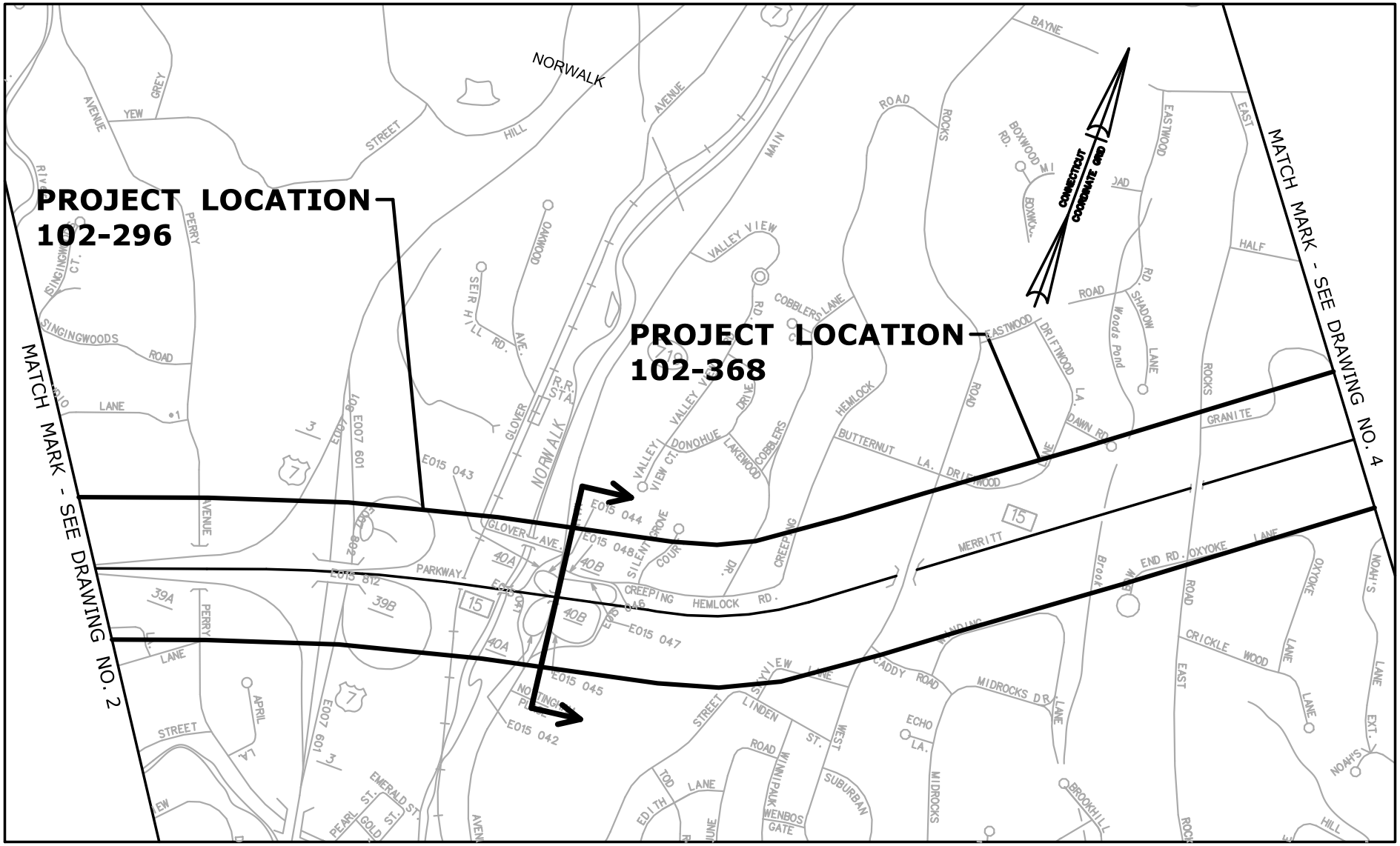
SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN -WESTPORT INDEX", PROJECT No. 102-296 & 102-369, DRAWING No. INX-01 THROUGH INX-04 BY OFFICE OF ENGINEERING, DATED 02/2017

STATE PROJECT NO.: 102-296 & 102-368 CITY/TOWN: NEW CANAAN, NORWALK & WESTPORT	**SITE LOCATION MAP** TRC Project No. 237612.005715.000210	TRC	DATE: MAY 2020 FIGURE 1-2



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PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN -WESTPORT INDEX", PROJECT No. 102-296 & 102-369, DRAWING No. INX-01 THROUGH INX-04 BY OFFICE OF ENGINEERING, DATED 02/2017

STATE PROJECT NO.:
102-296 & 102-368

CITY/TOWN:
NEW CANAAN, NORWALK & WESTPORT

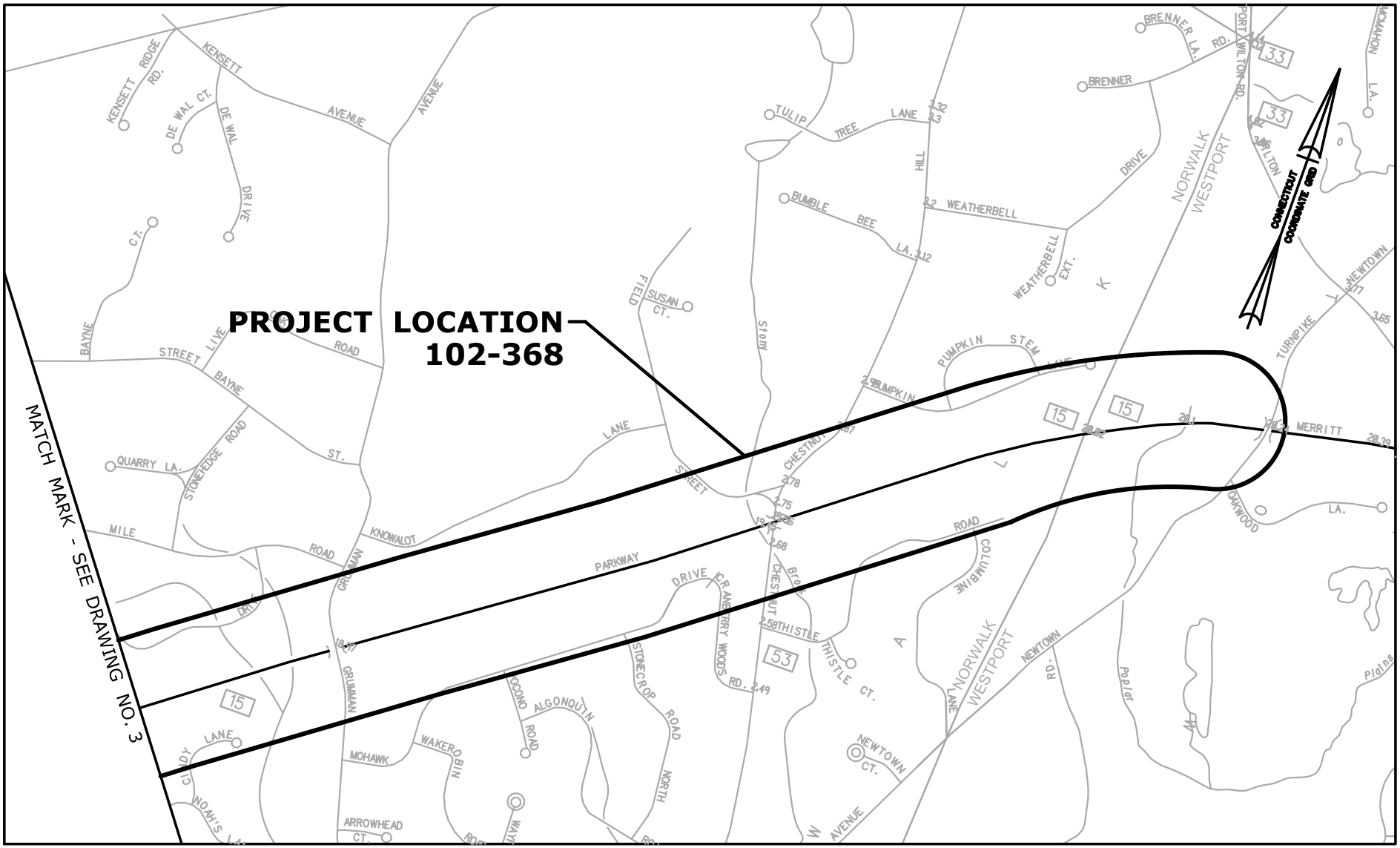
SITE LOCATION MAP

TRC Project No. 237612.005715.000210

TRC

DATE:
MAY 2020

FIGURE 1-3



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SOURCE:
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STATE PROJECT NO.:
102-296 & 102-368

CITY/TOWN:
NEW CANAAN, NORWALK & WESTPORT

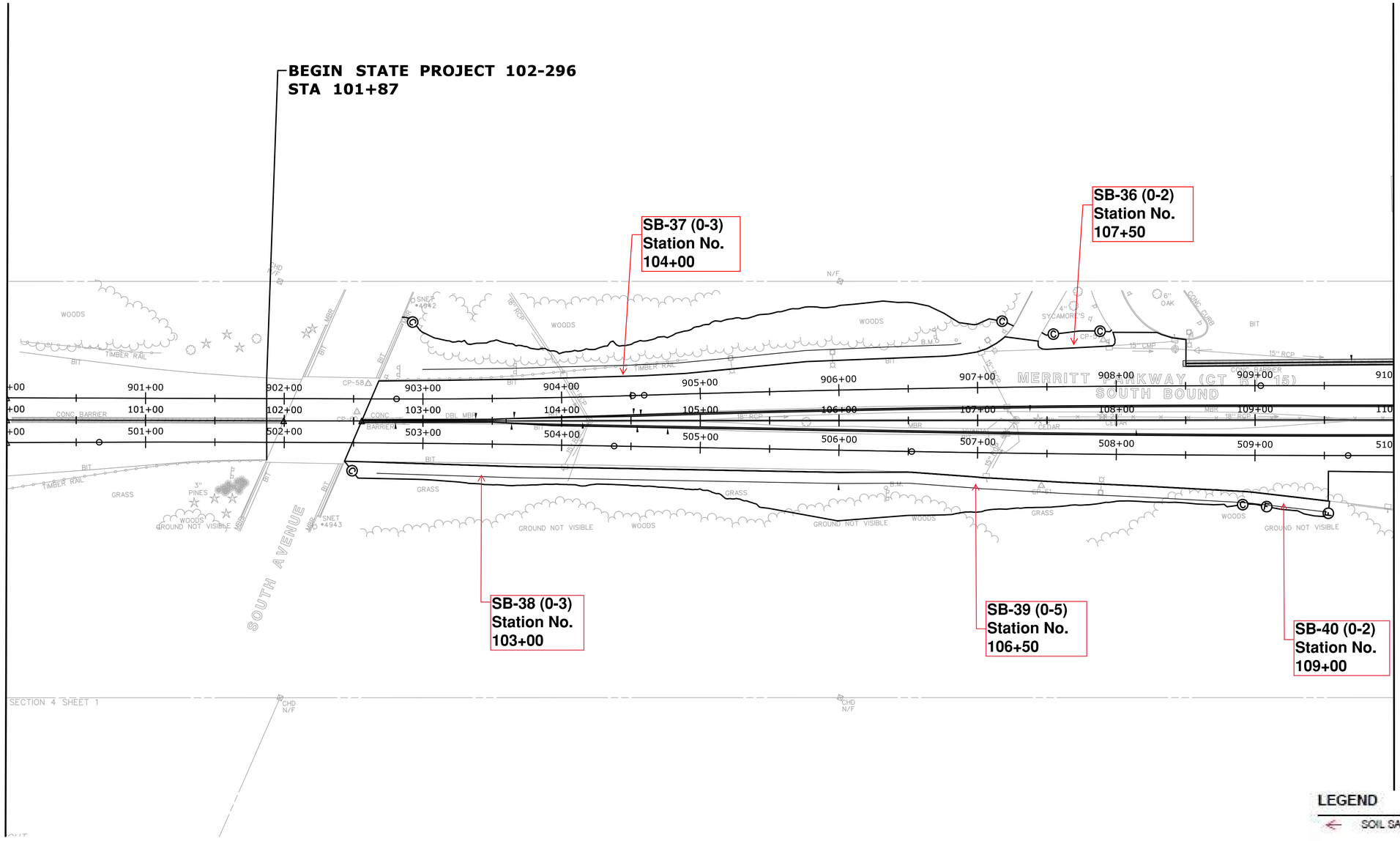
SITE LOCATION MAP

TRC Project No. 237612.005715.000210

TRC

DATE:
MAY 2020

FIGURE 1-4



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-01.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

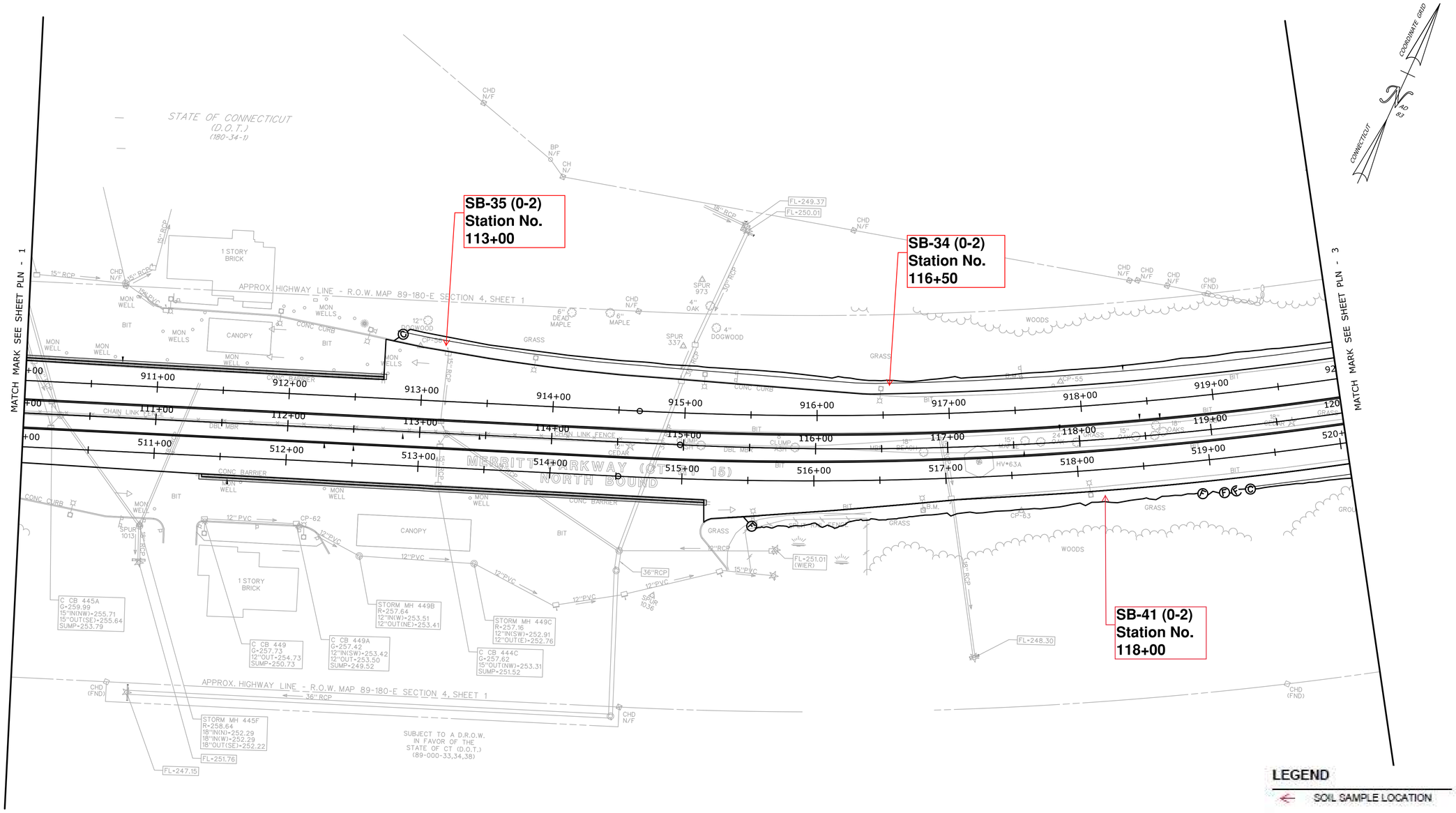
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

102-296

DRAWING NO.
FIGURE 2-1

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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Plotted Date: 7/24/2019

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

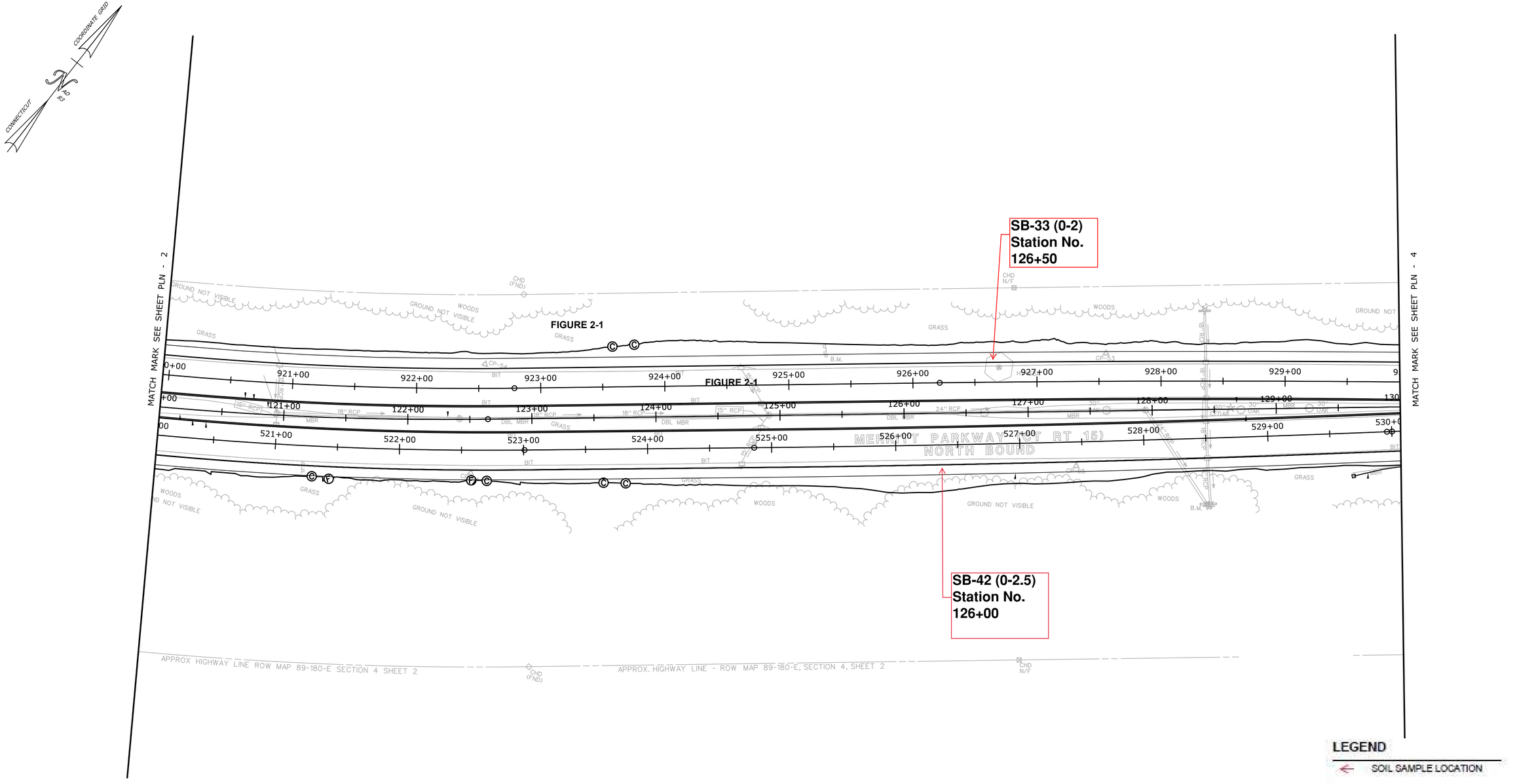
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-2

SHEET NO.



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SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

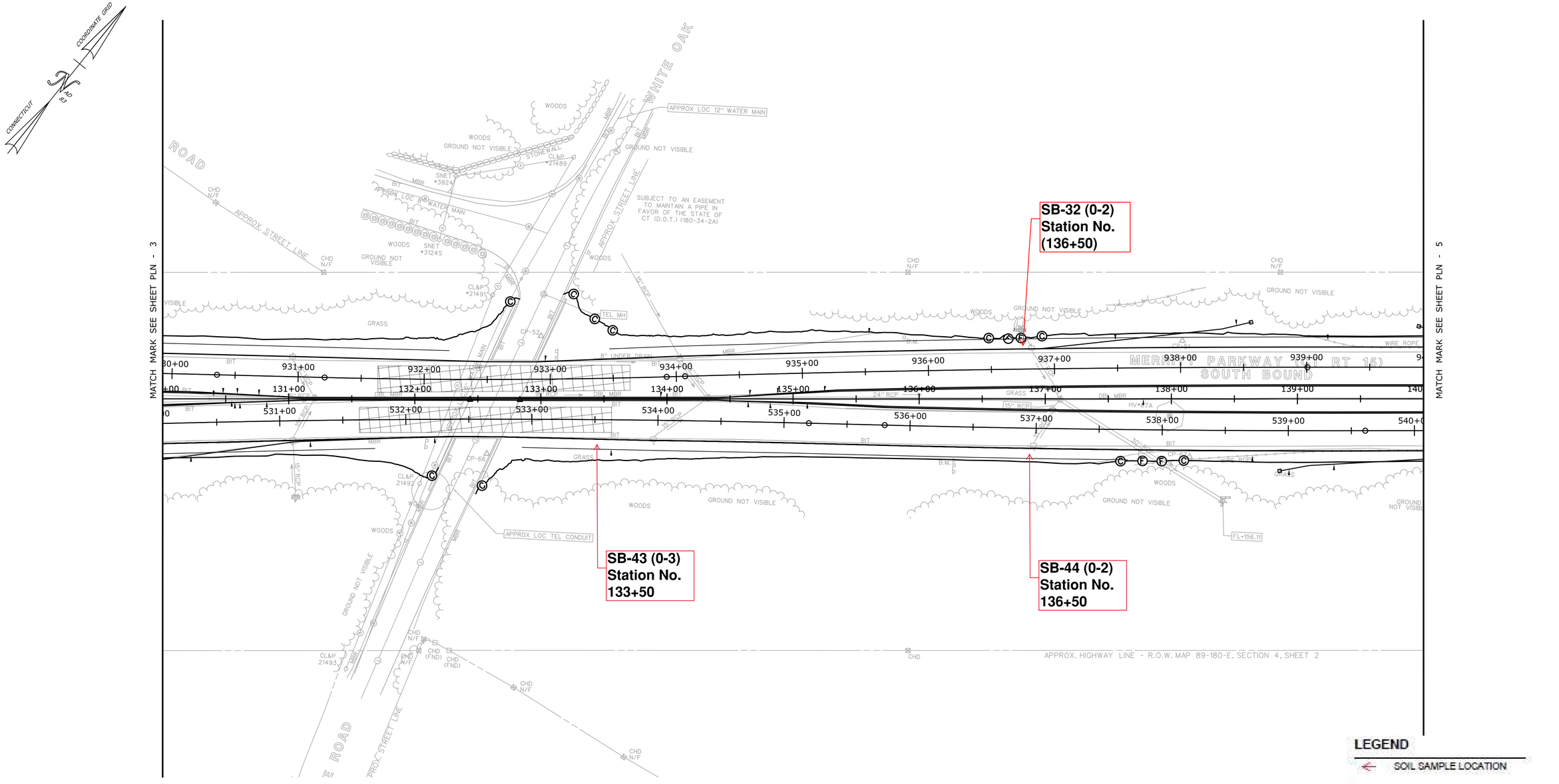
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-3

SHEET NO.



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SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

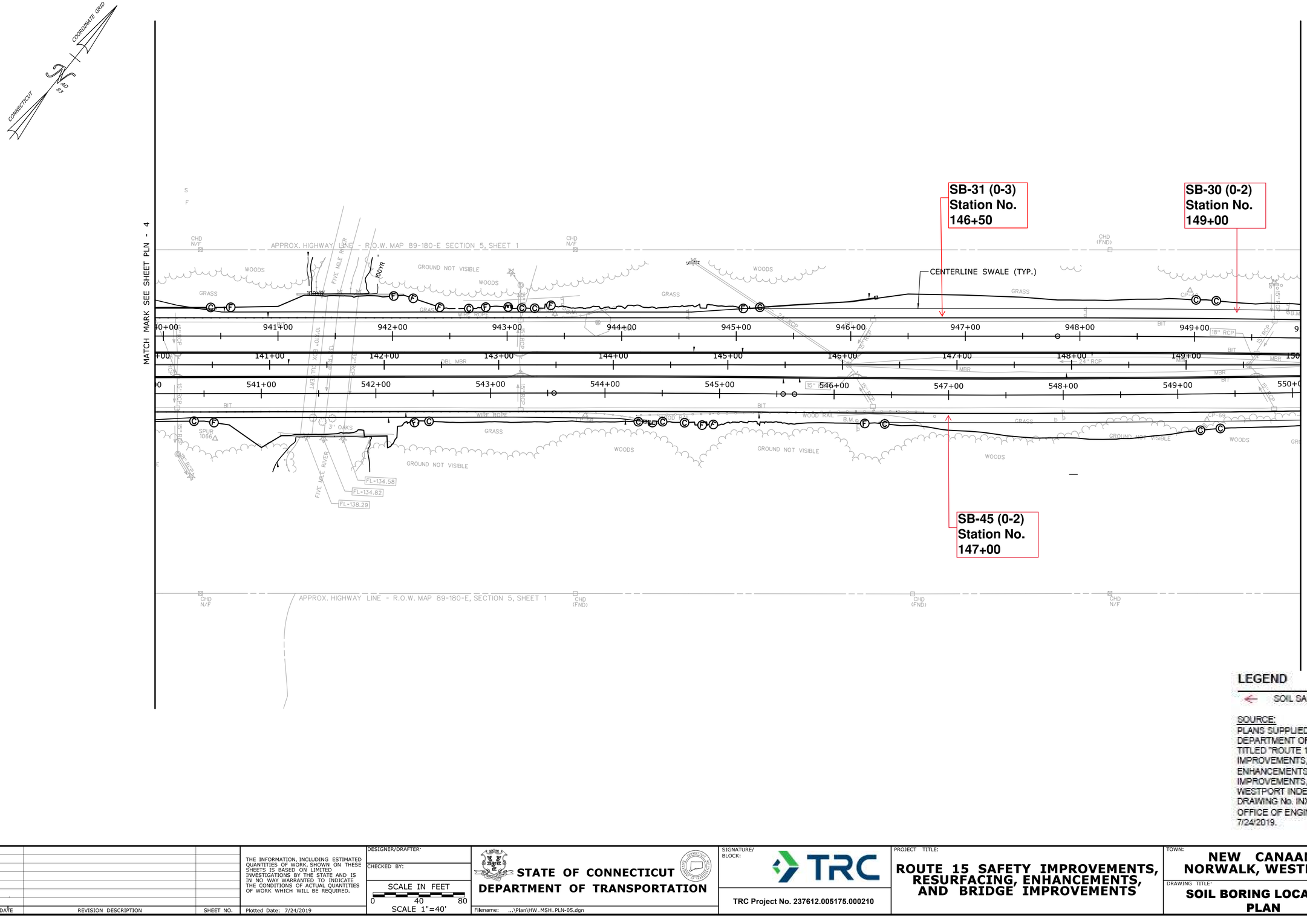
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-4

SHEET NO.



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SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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DESIGNER/DRAFTER:

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

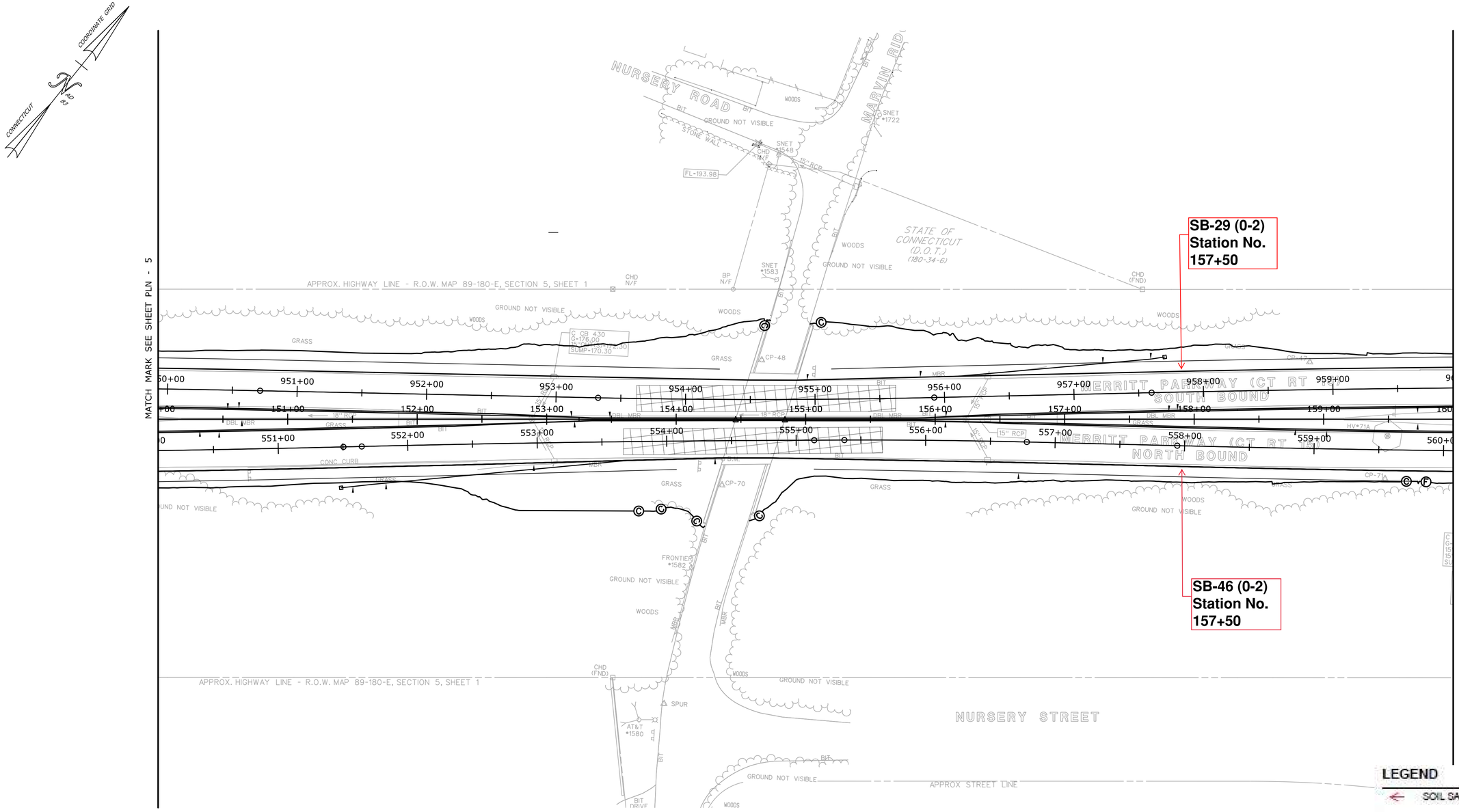
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-5

SHEET NO.



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SOIL SAMPLE LOCATION

SOURCE:
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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

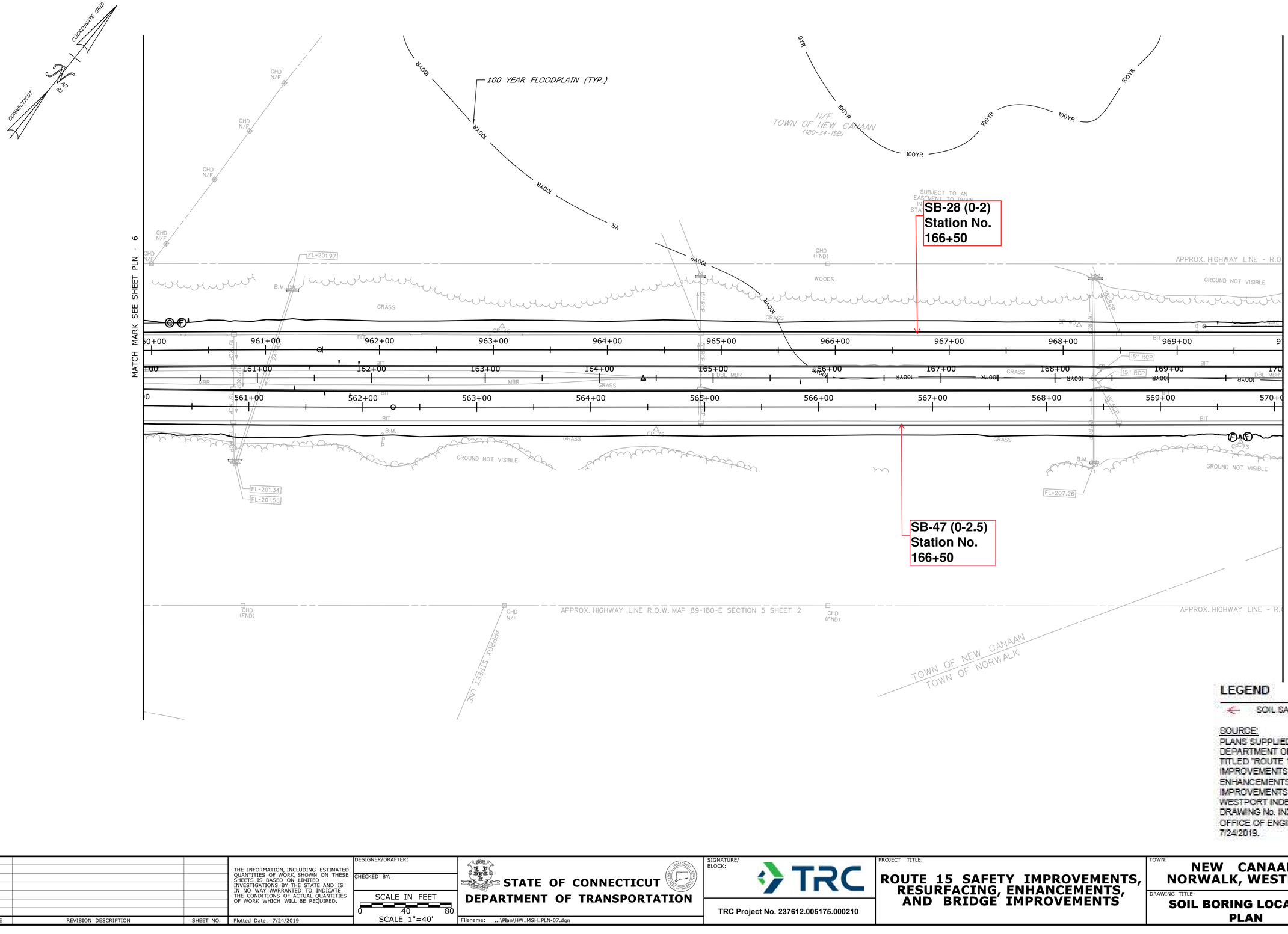
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-6

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

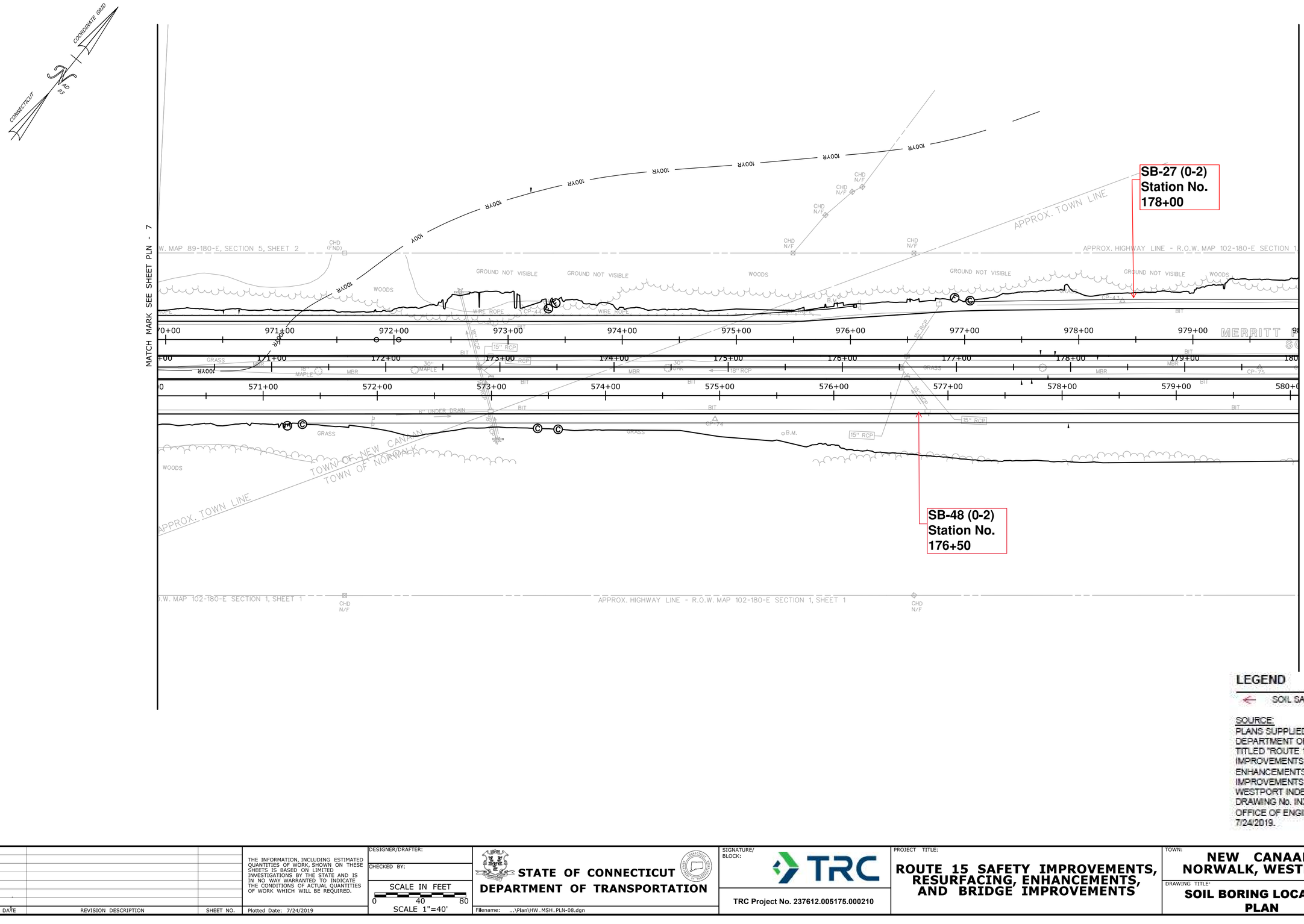
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-7

SHEET NO.



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SOIL SAMPLE LOCATION

SOURCE:
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Plotted Date: 7/24/2019

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

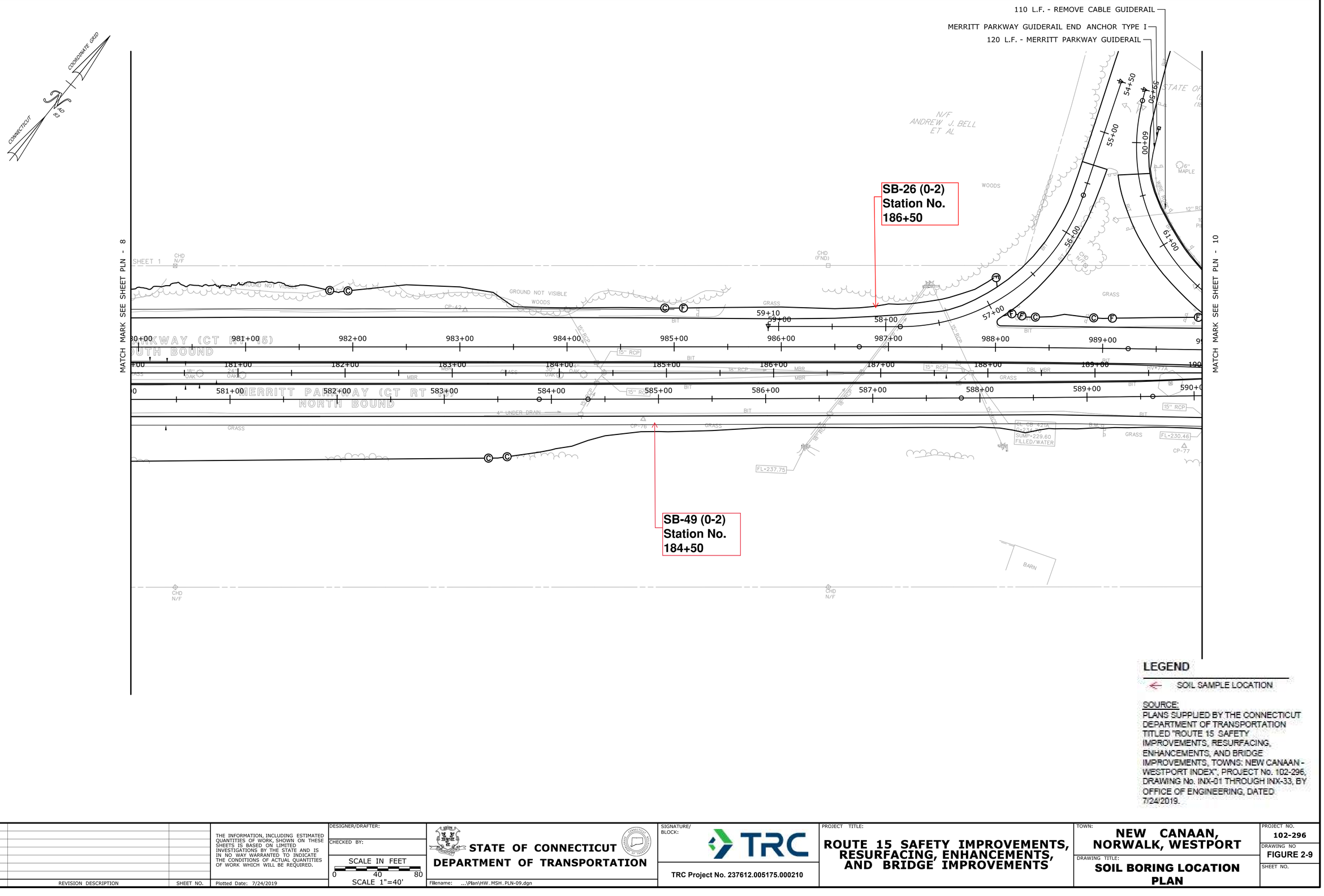
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-8

SHEET NO.



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SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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SIGNATURE/ BLOCK:

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

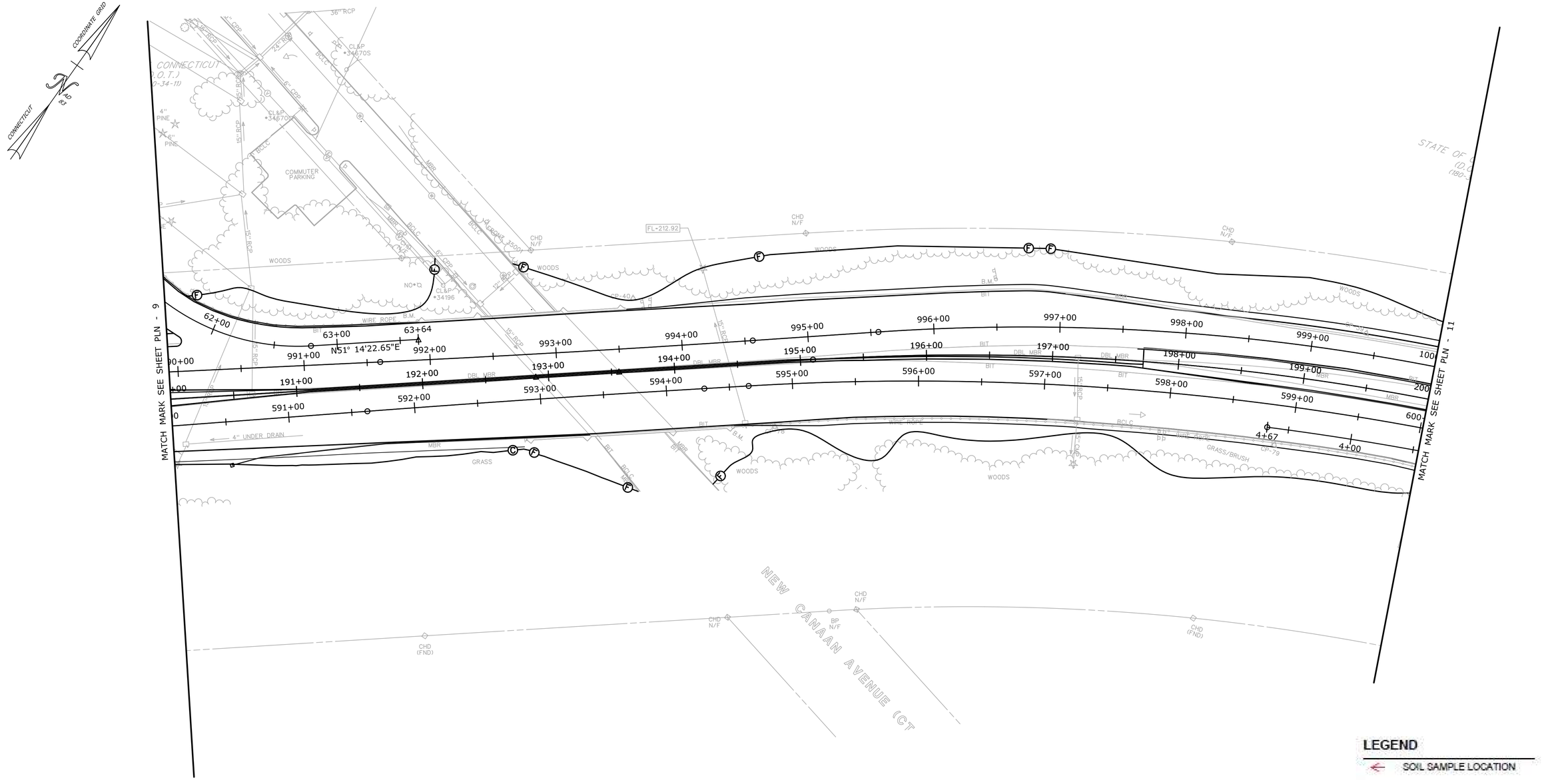
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO
FIGURE 2-9

SHEET NO.



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SOIL SAMPLE LOCATION

SOURCE:
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DESIGNER/DRAFTER:

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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

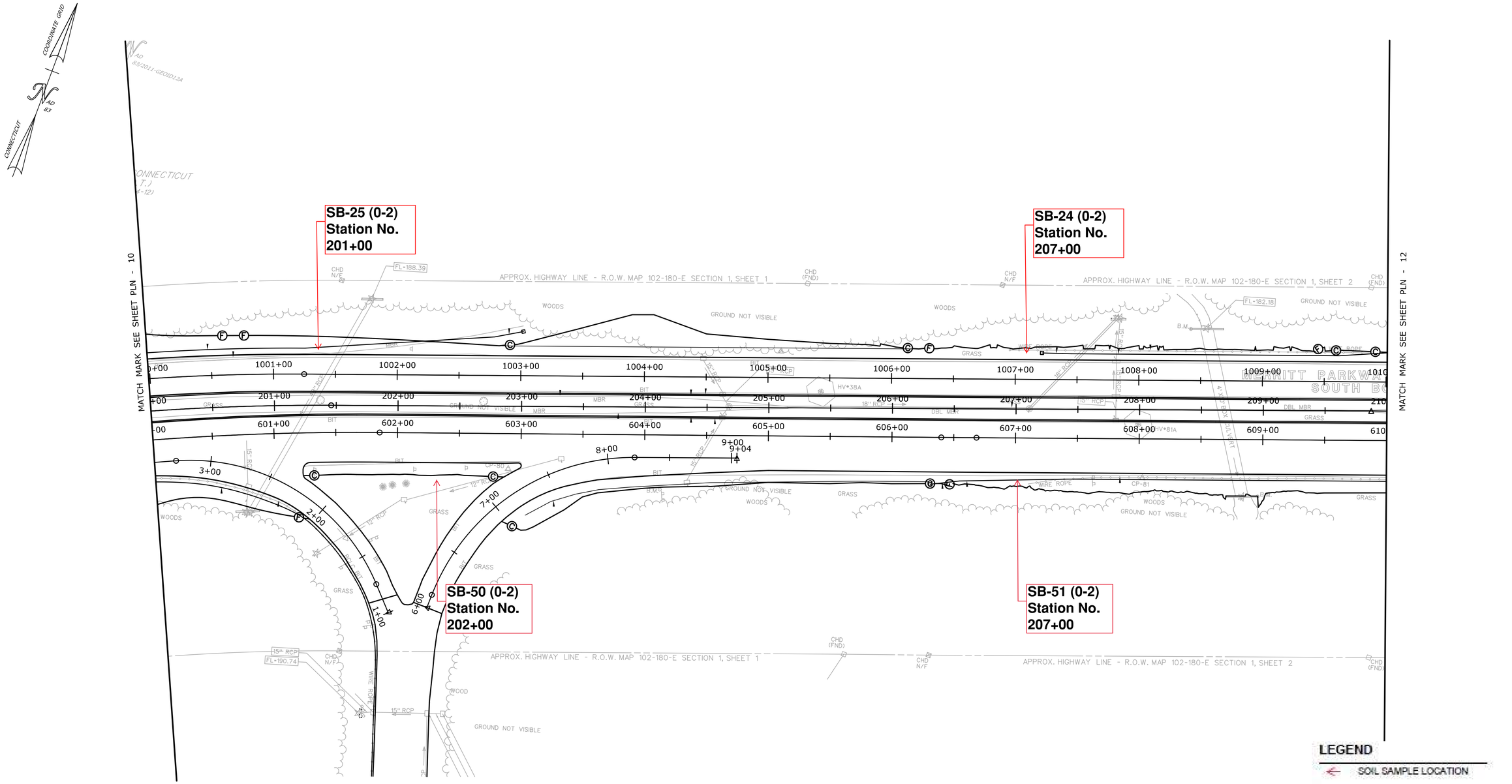
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-10

SHEET NO.



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SOIL SAMPLE LOCATION

SOURCE:
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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

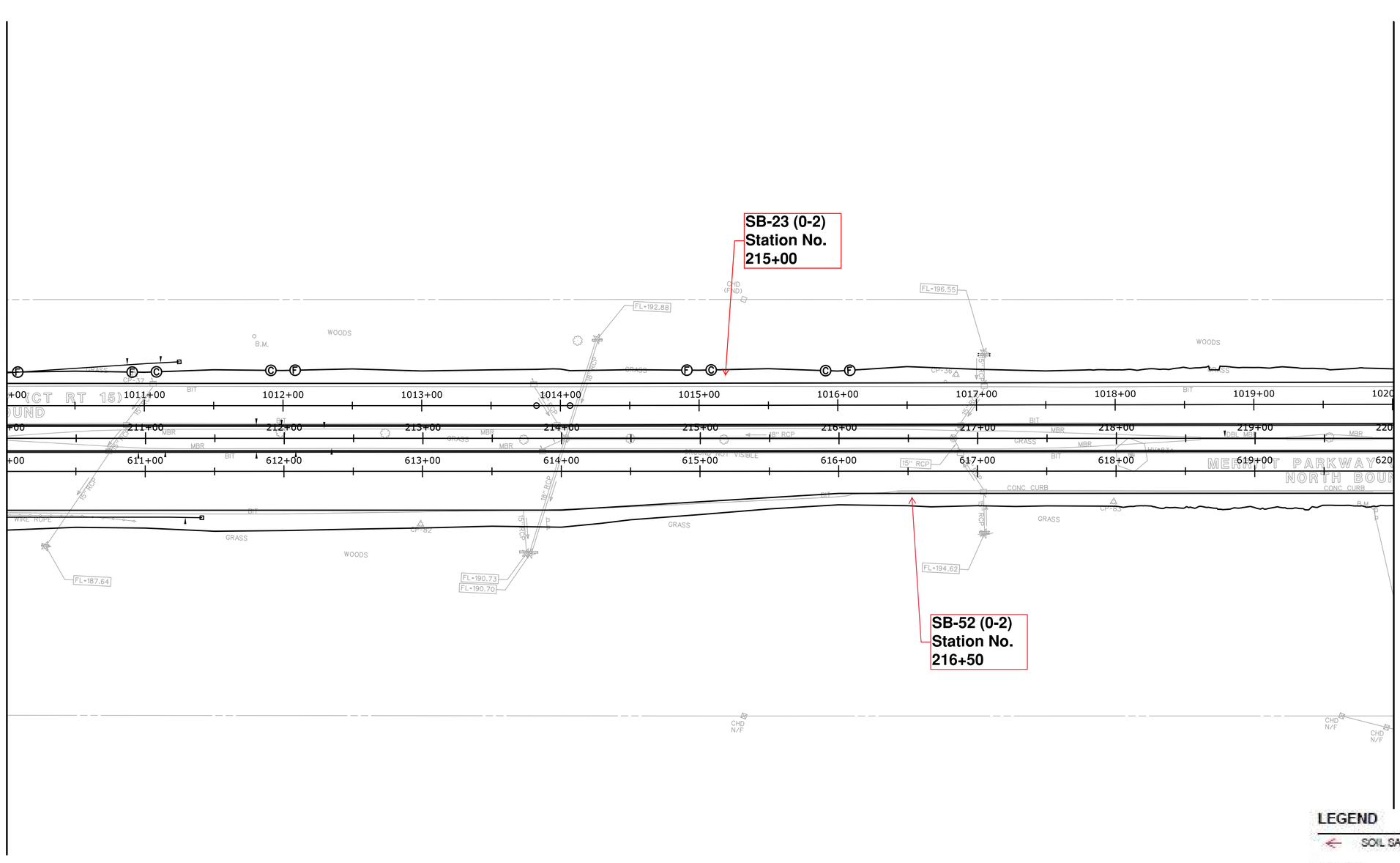
PROJECT NO.
102-296

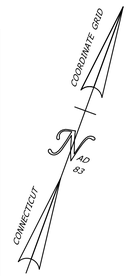
DRAWING NO.
FIGURE 2-11

SHEET NO.

MATCH MARK SEE SHEET PLN - 11

MATCH MARK SEE SHEET PLN - 13





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SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-12.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

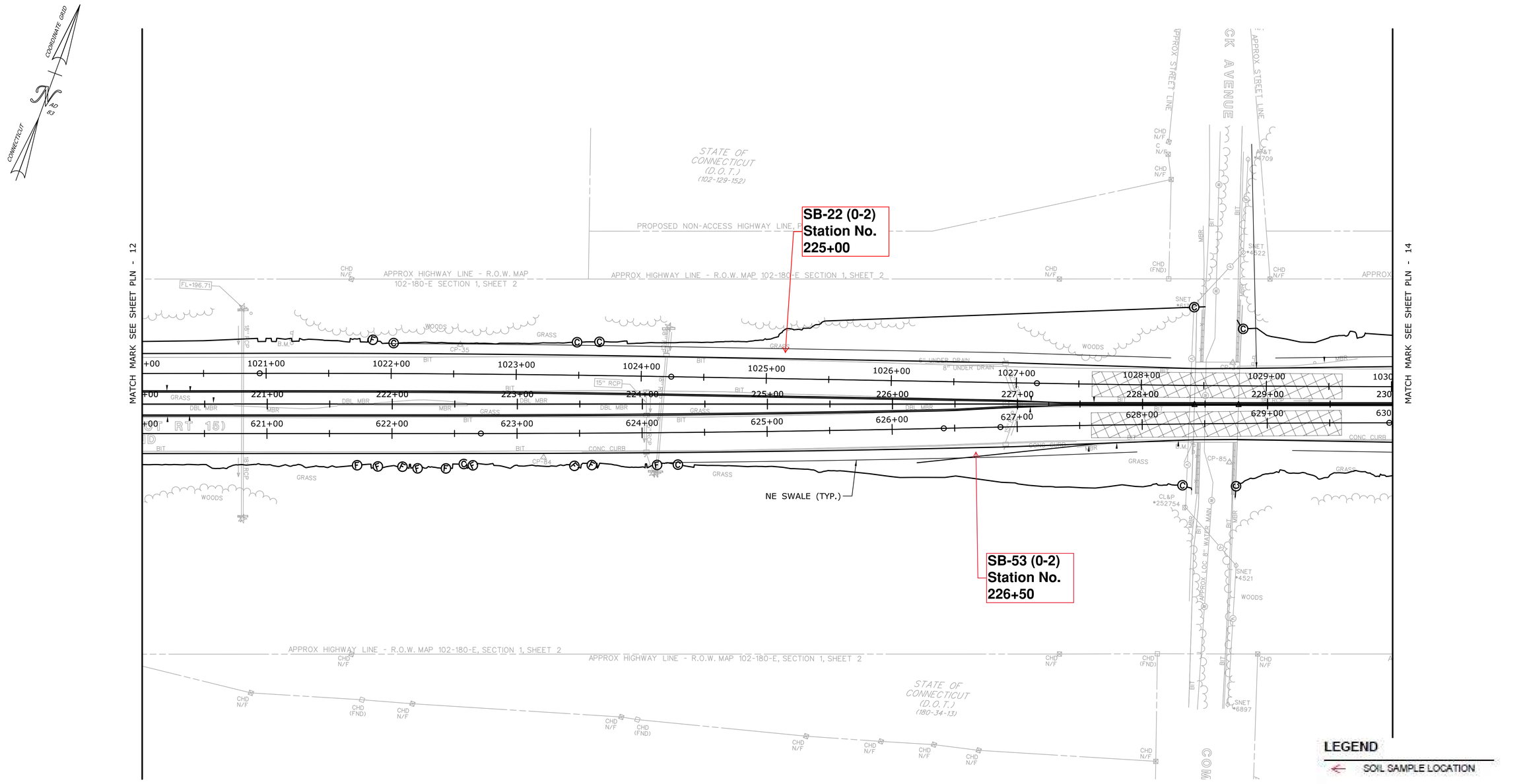
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-12

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-13.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

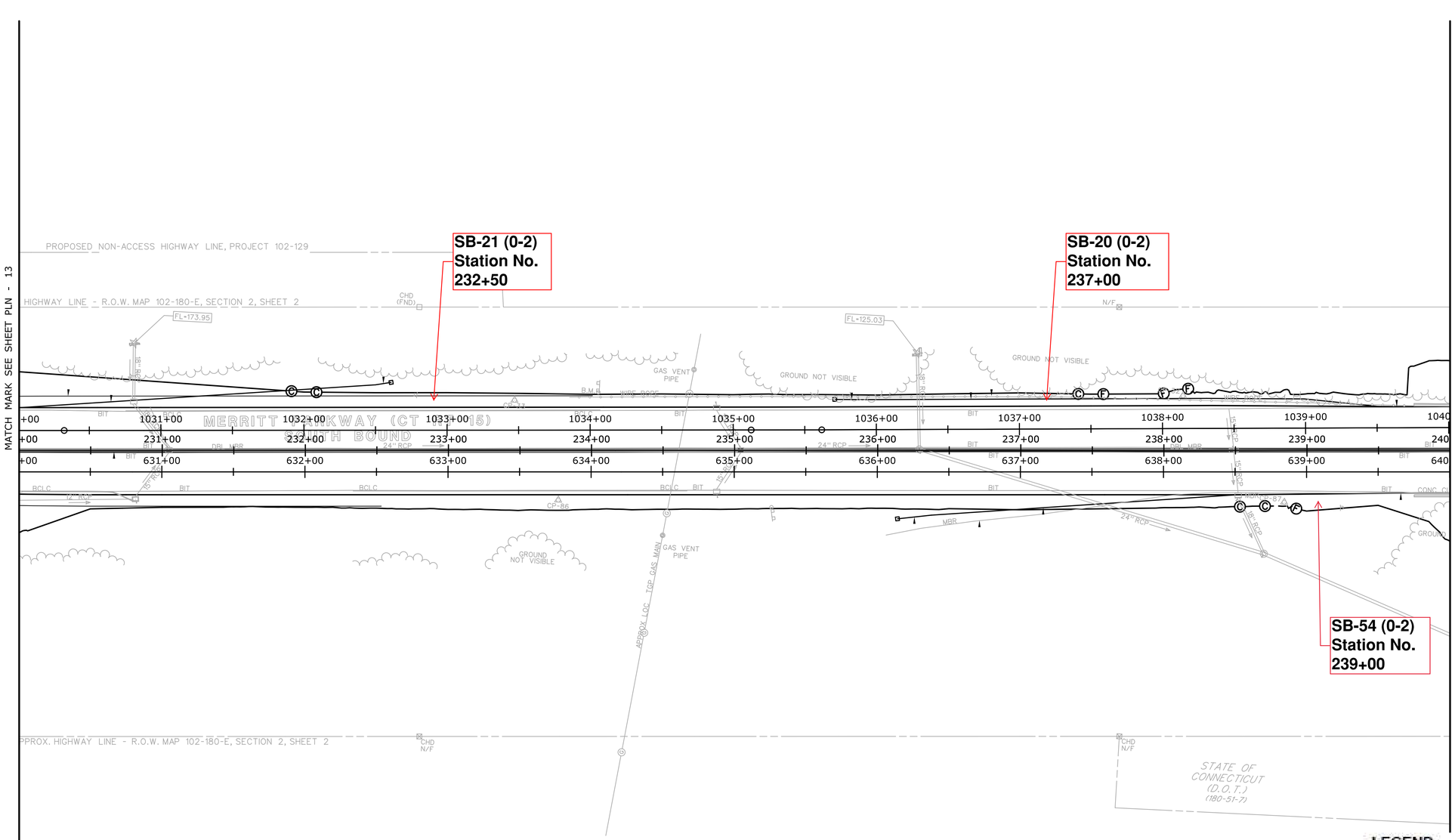
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-13

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-14.dgn

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TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

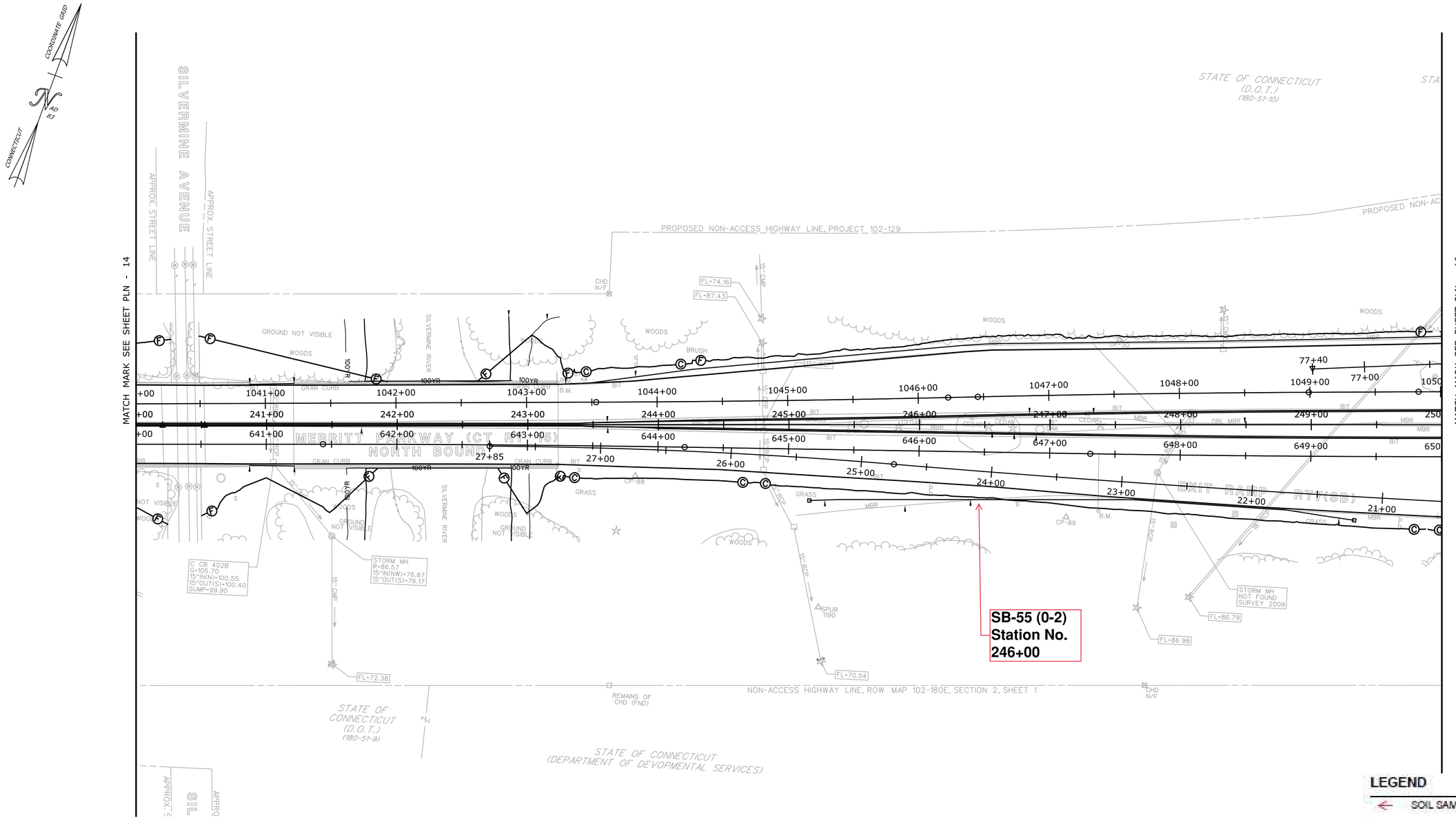
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-14

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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Plotted Date: 7/24/2019

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-15.dgn

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

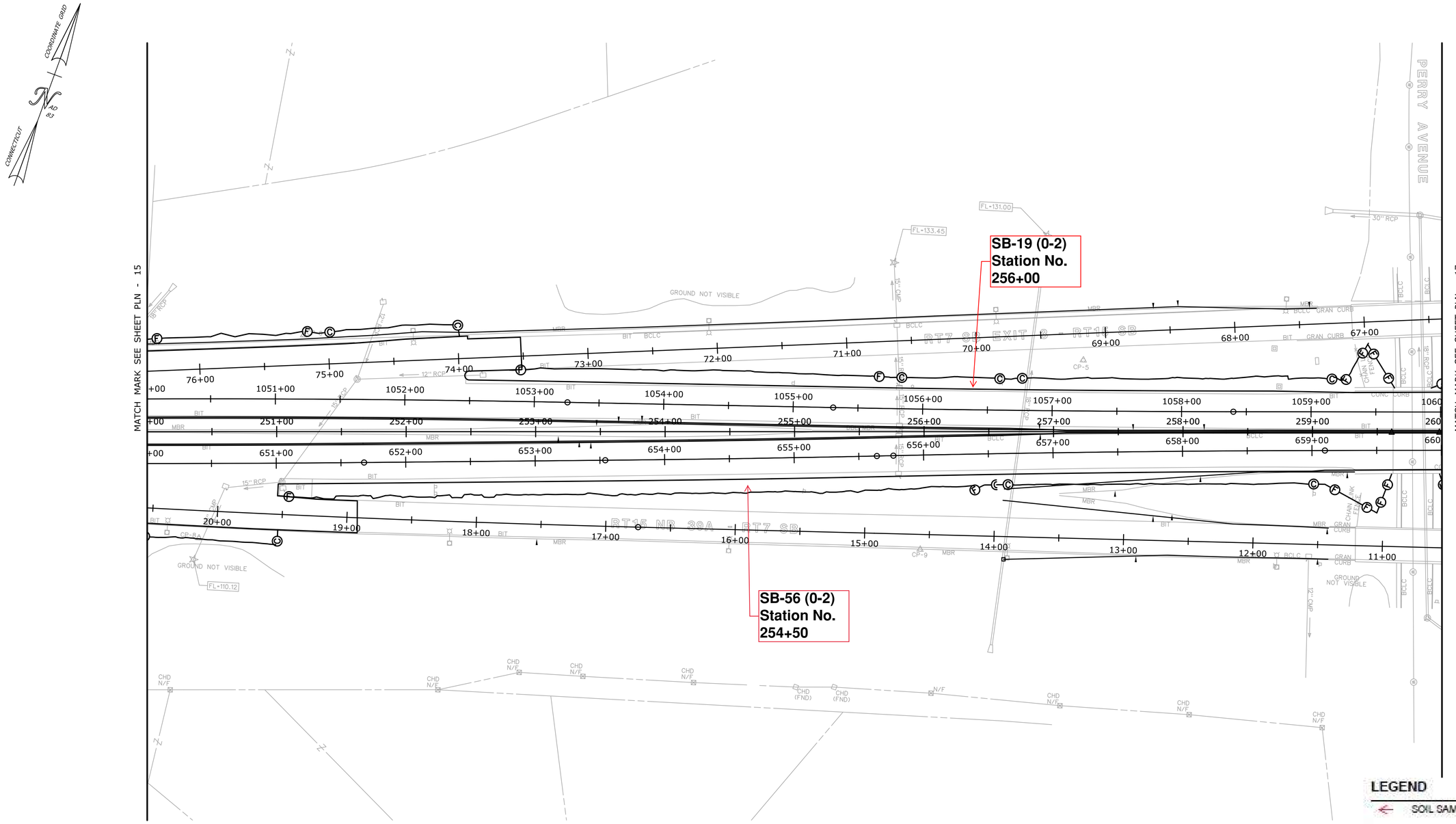
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-15

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-16.dgn

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TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

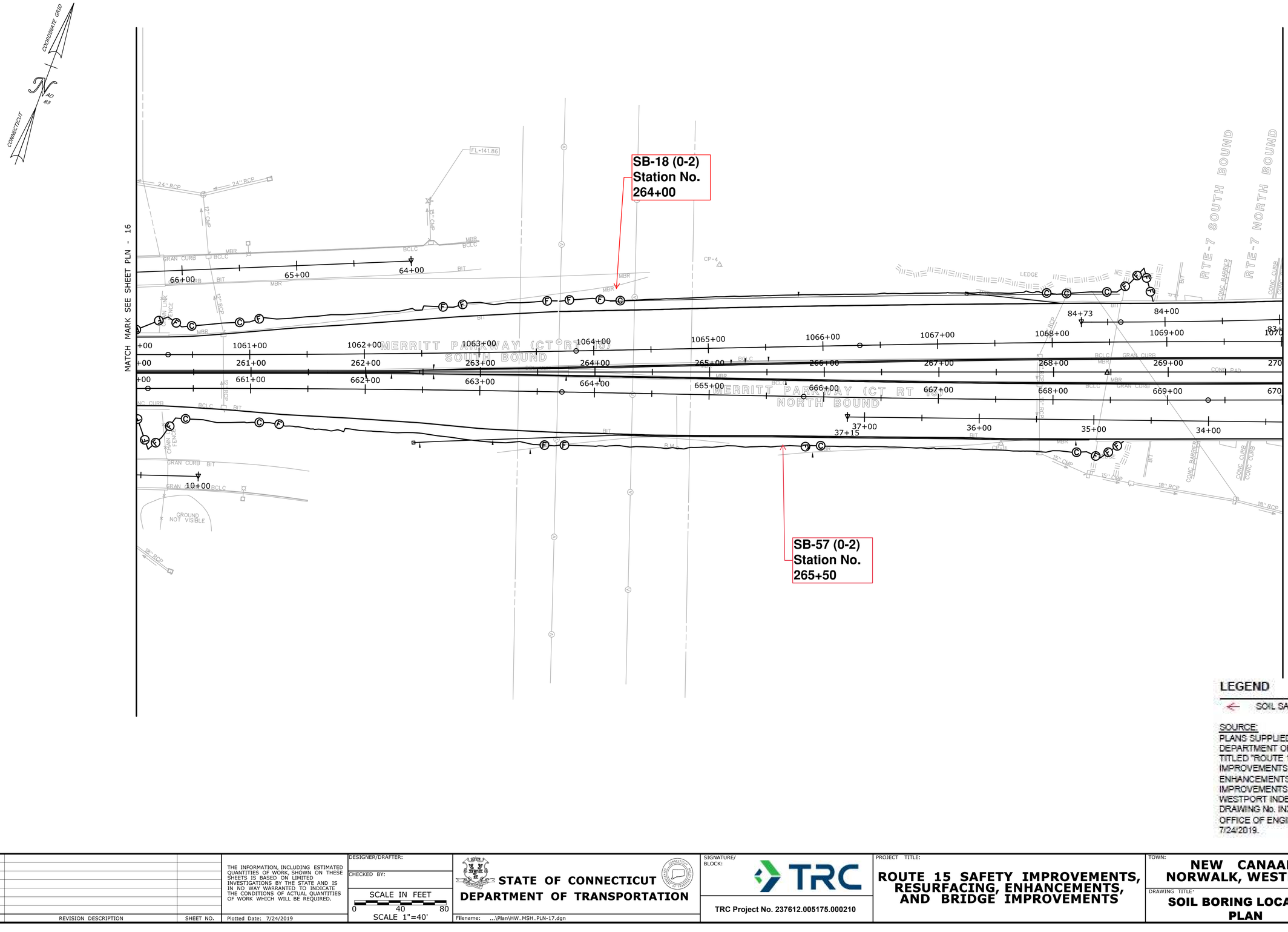
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-16

SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-17.dgn

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

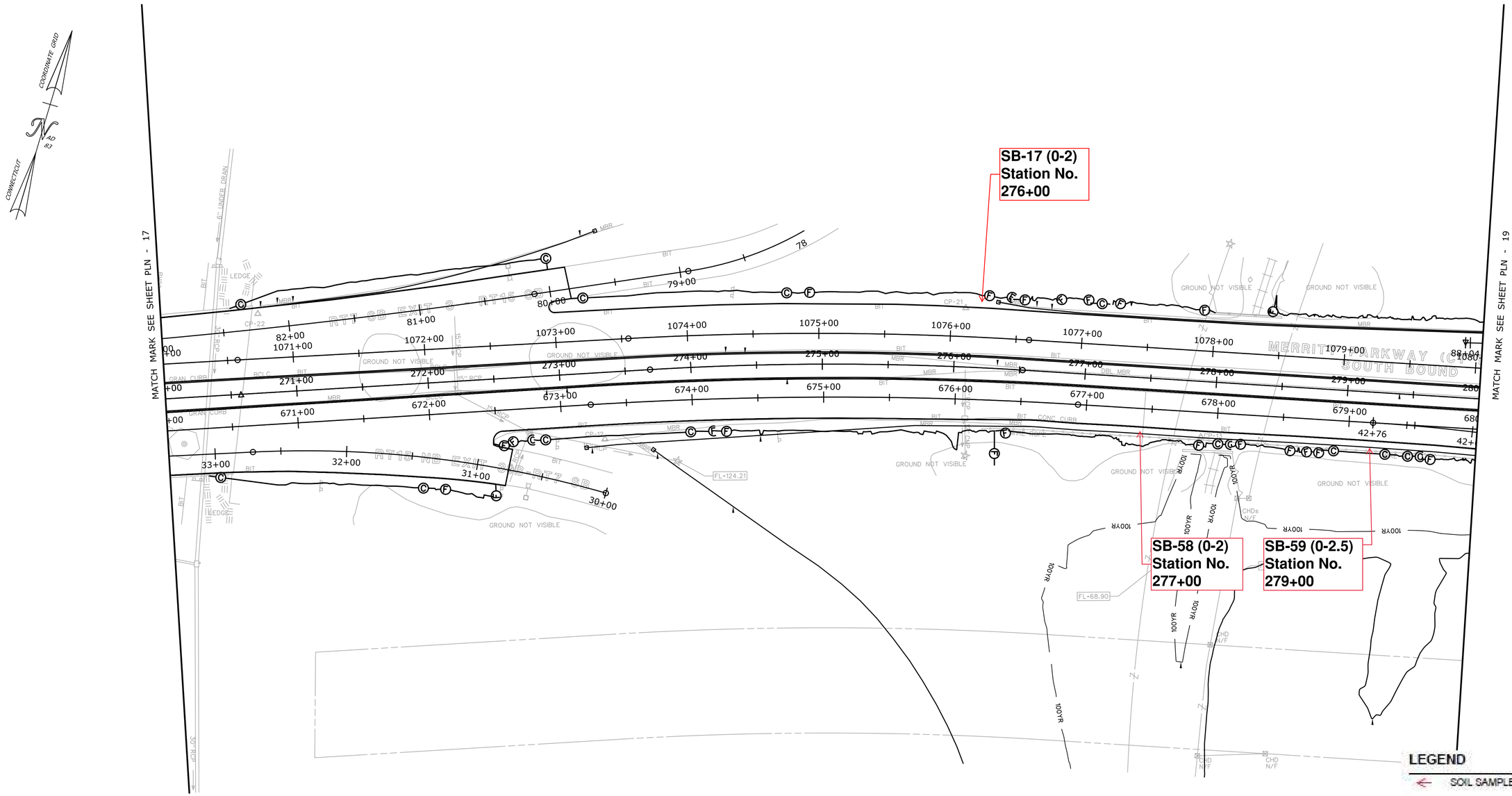
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-17

SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-18.dgn

SIGNATURE/ BLOCK:

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

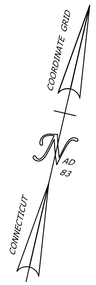
PROJECT NO.
102-296

DRAWING NO
FIGURE 2-18

SHEET NO.

State Project No. 102-296

State Project No. 102-368



MATCH MARK SEE SHEET PLN - 18

MATCH MARK SEE SHEET PLN - 20

SB-16 (0-2)
Station No.
286+50

SB-60 (0-2)
Station No.
286+00

LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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Plotted Date: 7/24/2019

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-19.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

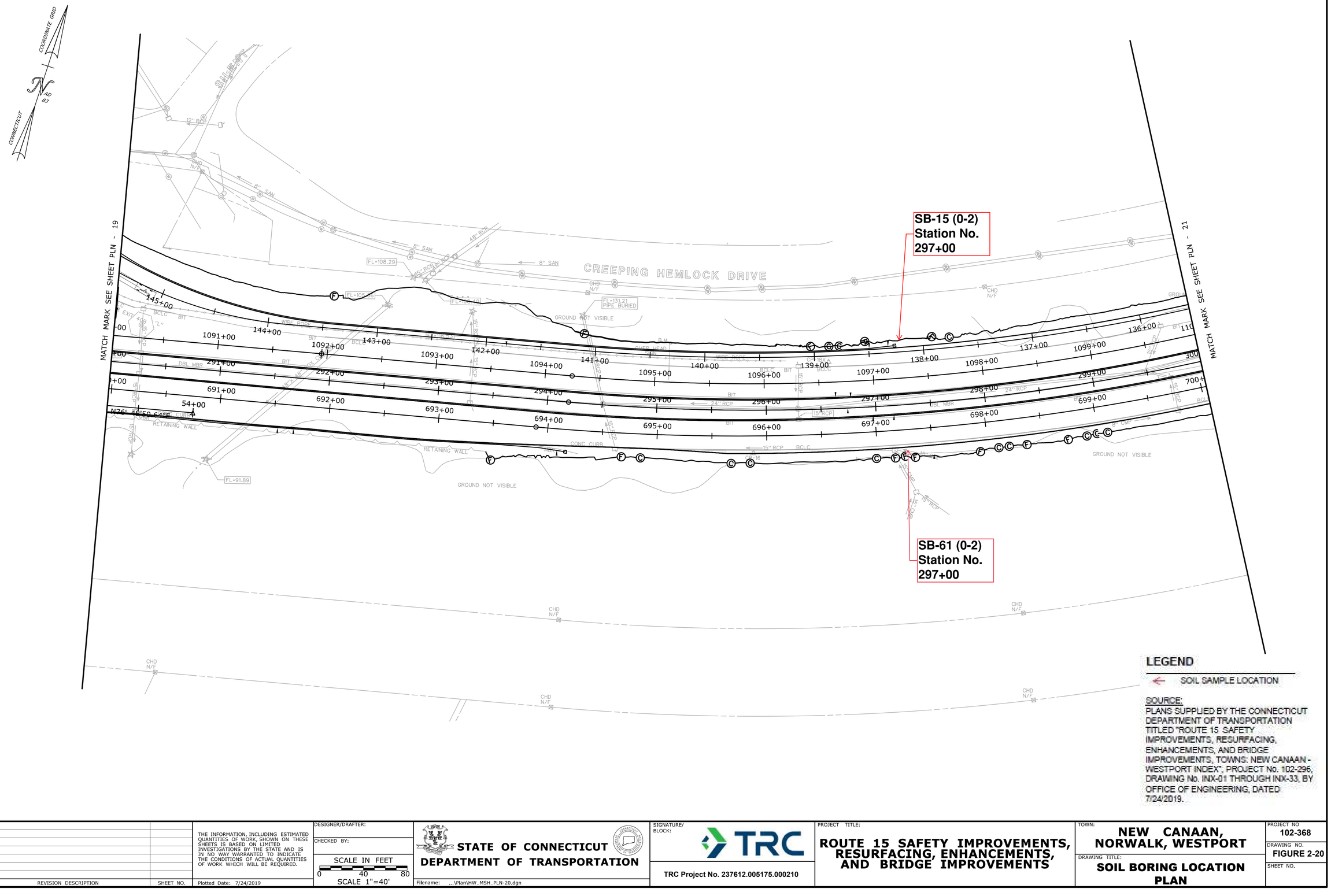
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-296

DRAWING NO.
FIGURE 2-19

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-20.dgn

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

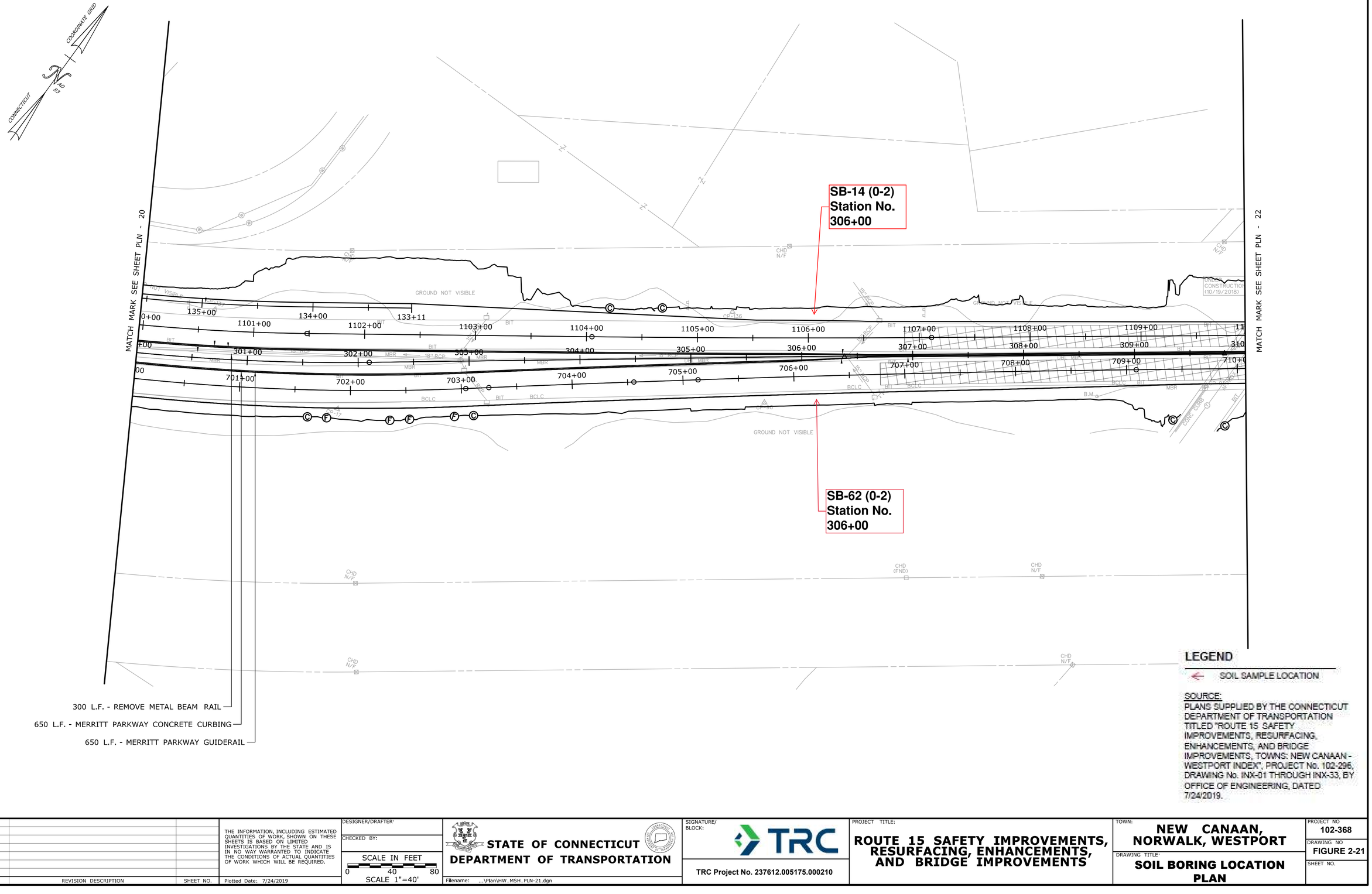
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO
102-368

DRAWING NO.
FIGURE 2-20

SHEET NO.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-21.dgn

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

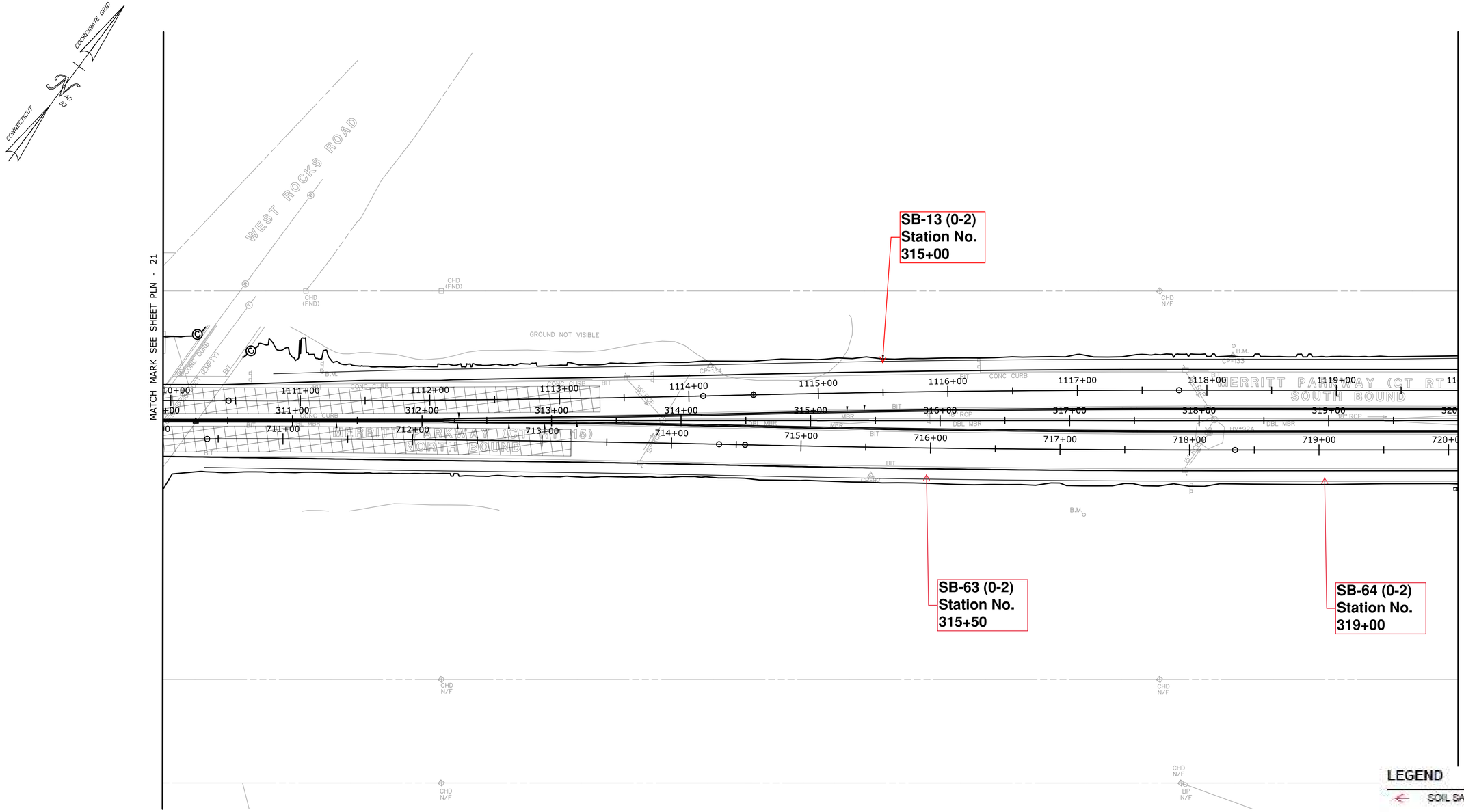
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO
102-368

DRAWING NO
FIGURE 2-21

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-22.dgn

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

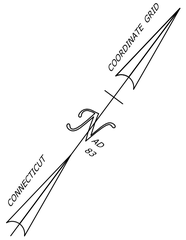
TOWN:
NEW CANAAN, NORWALK, WESTPORT

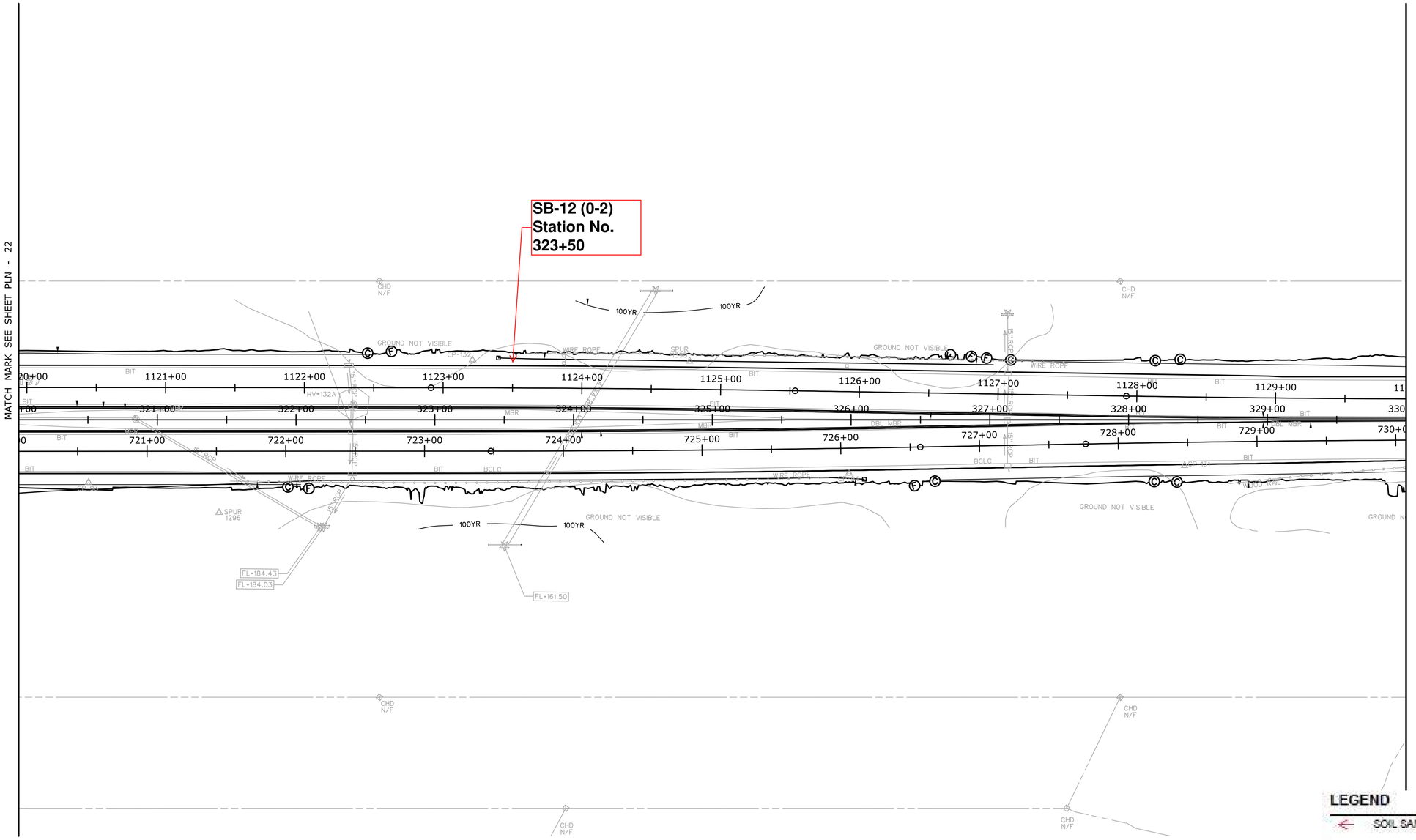
DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-368

DRAWING NO.
FIGURE 2-22

SHEET NO.





LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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SCALE 1"=40'

STATE OF CONNECTICUT
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Filename: ...\Plan\HW_MSH_PLN-23.dgn

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TRC Project No. 237612.005175.000210

PROJECT TITLE:

ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

TOWN:

NEW CANAAN, NORWALK, WESTPORT

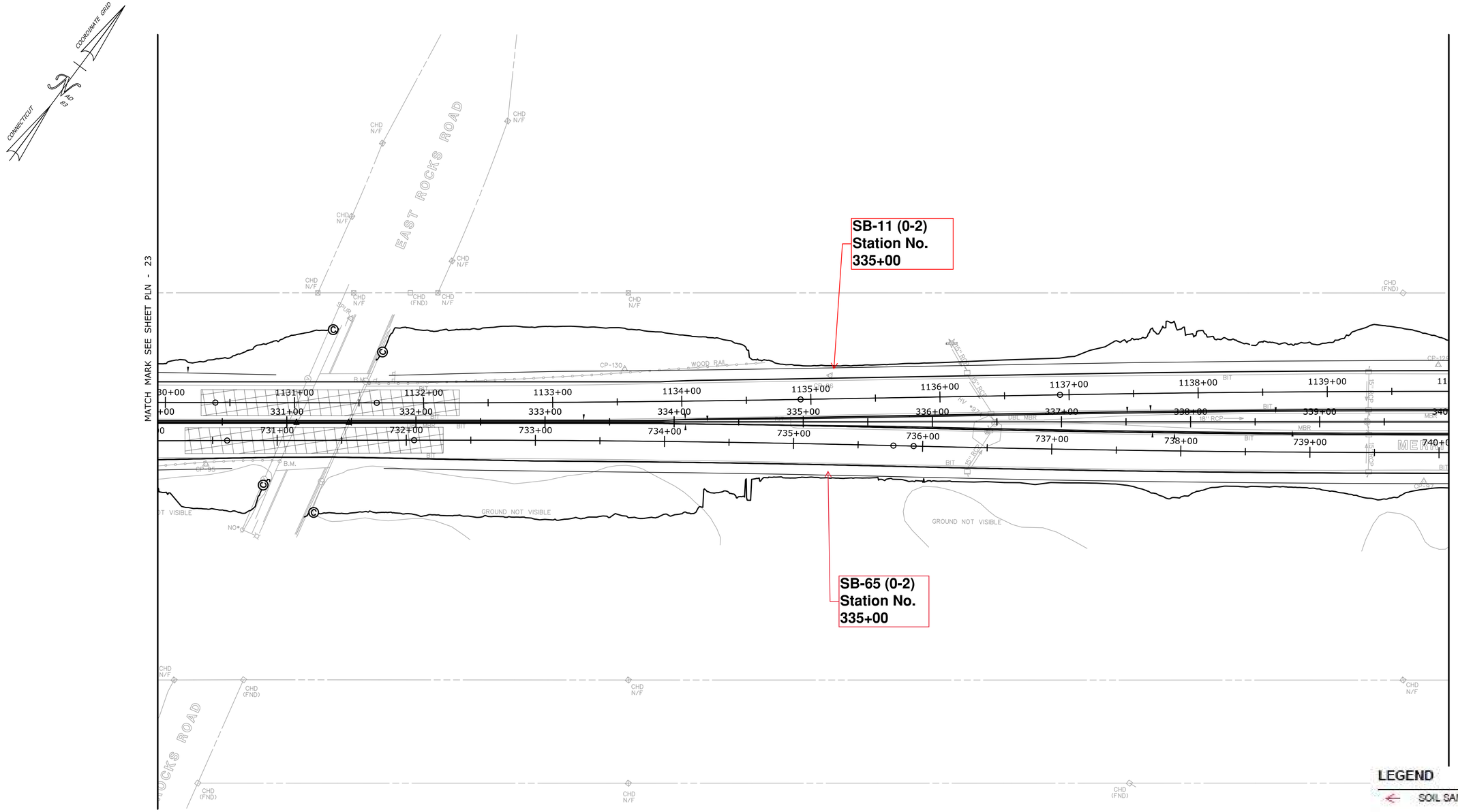
DRAWING TITLE:

SOIL BORING LOCATION PLAN

PROJECT NO. 102-368

DRAWING NO. FIGURE 2-23

SHEET NO.



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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

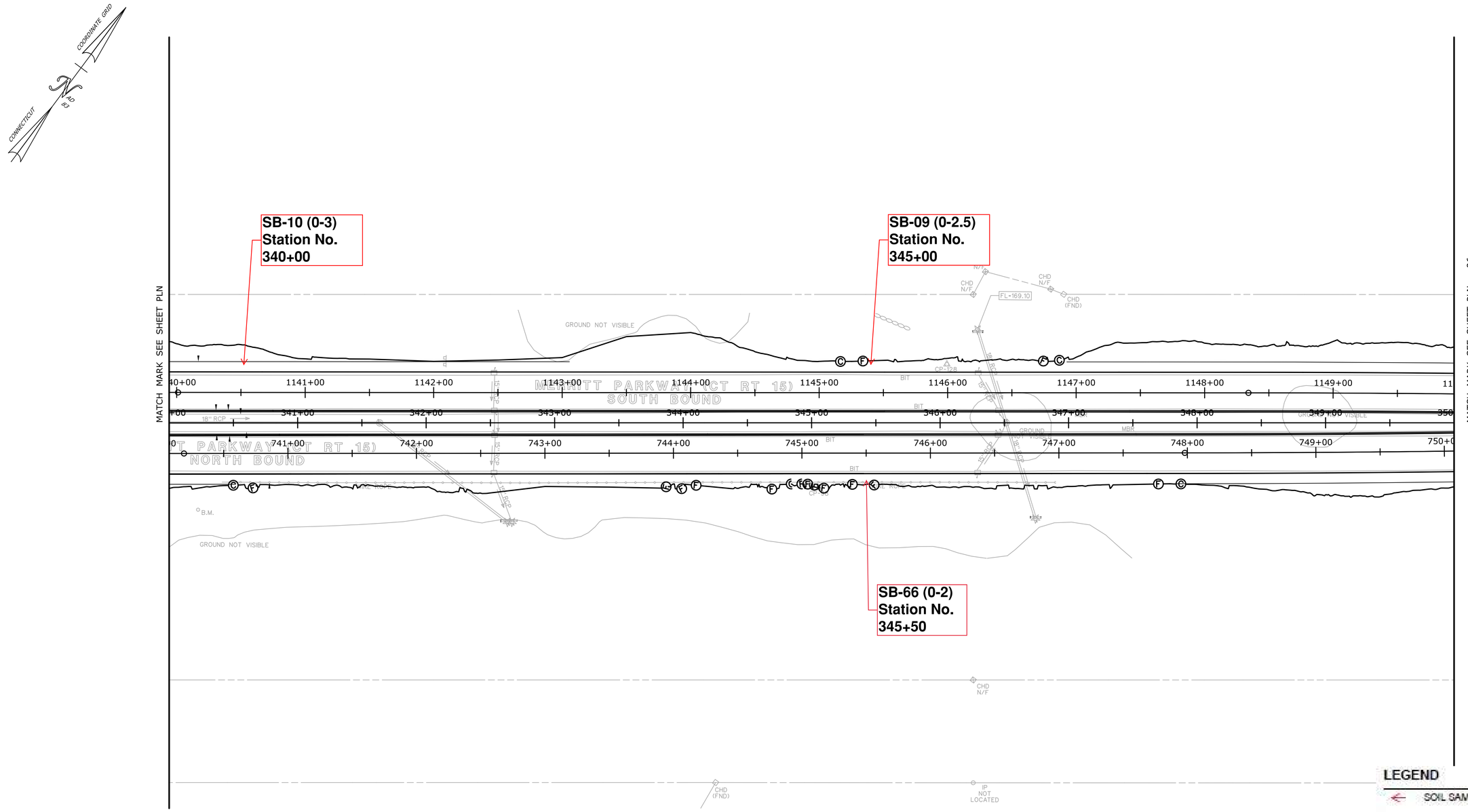
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-368

DRAWING NO.
FIGURE 2-24

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-25.dgn

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TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

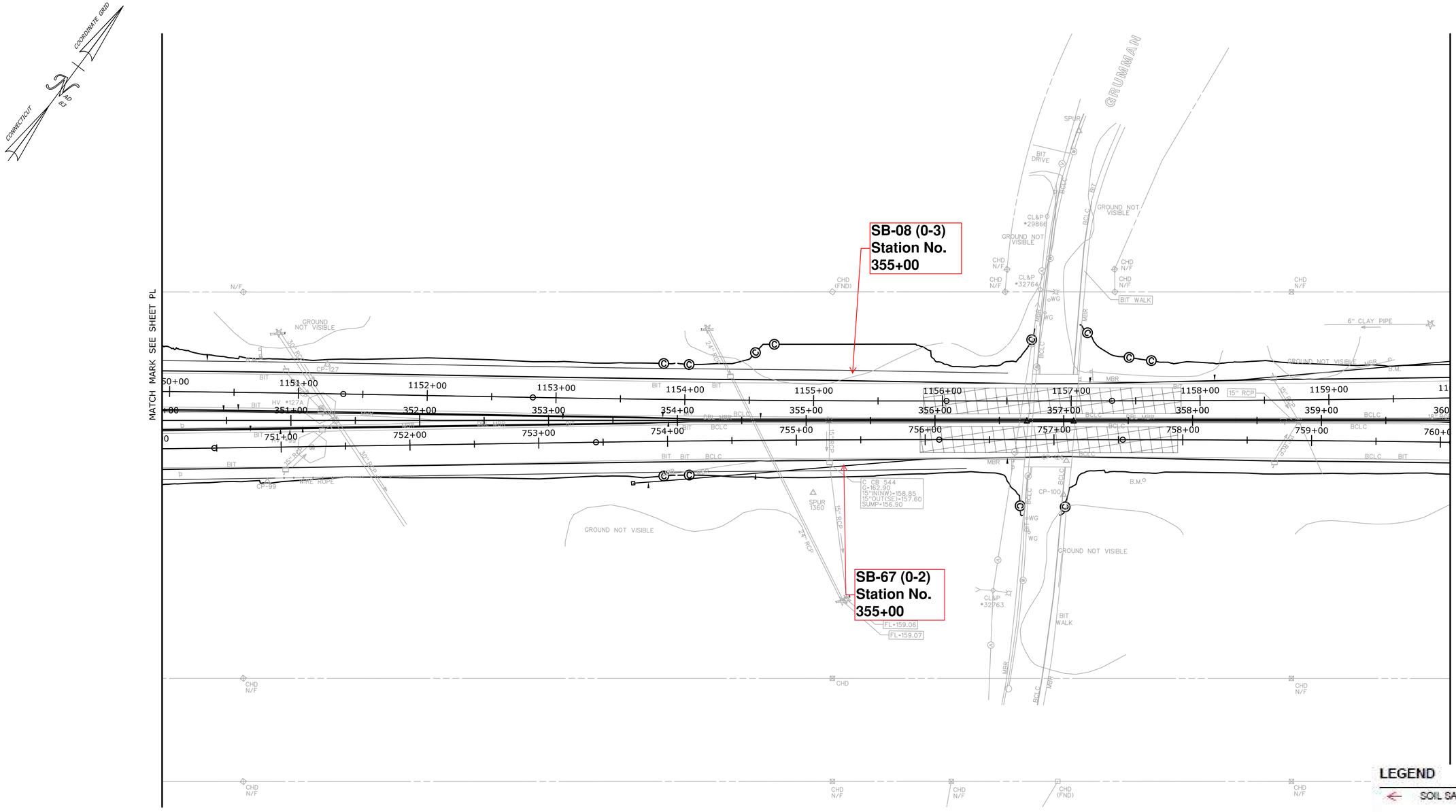
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO
102-368

DRAWING NO.
FIGURE 2-25

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

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Plotted Date: 7/24/2019

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-26.dgn

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TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

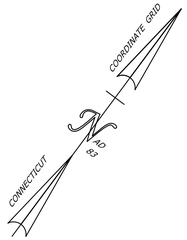
TOWN:
NEW CANAAN, NORWALK, WESTPORT

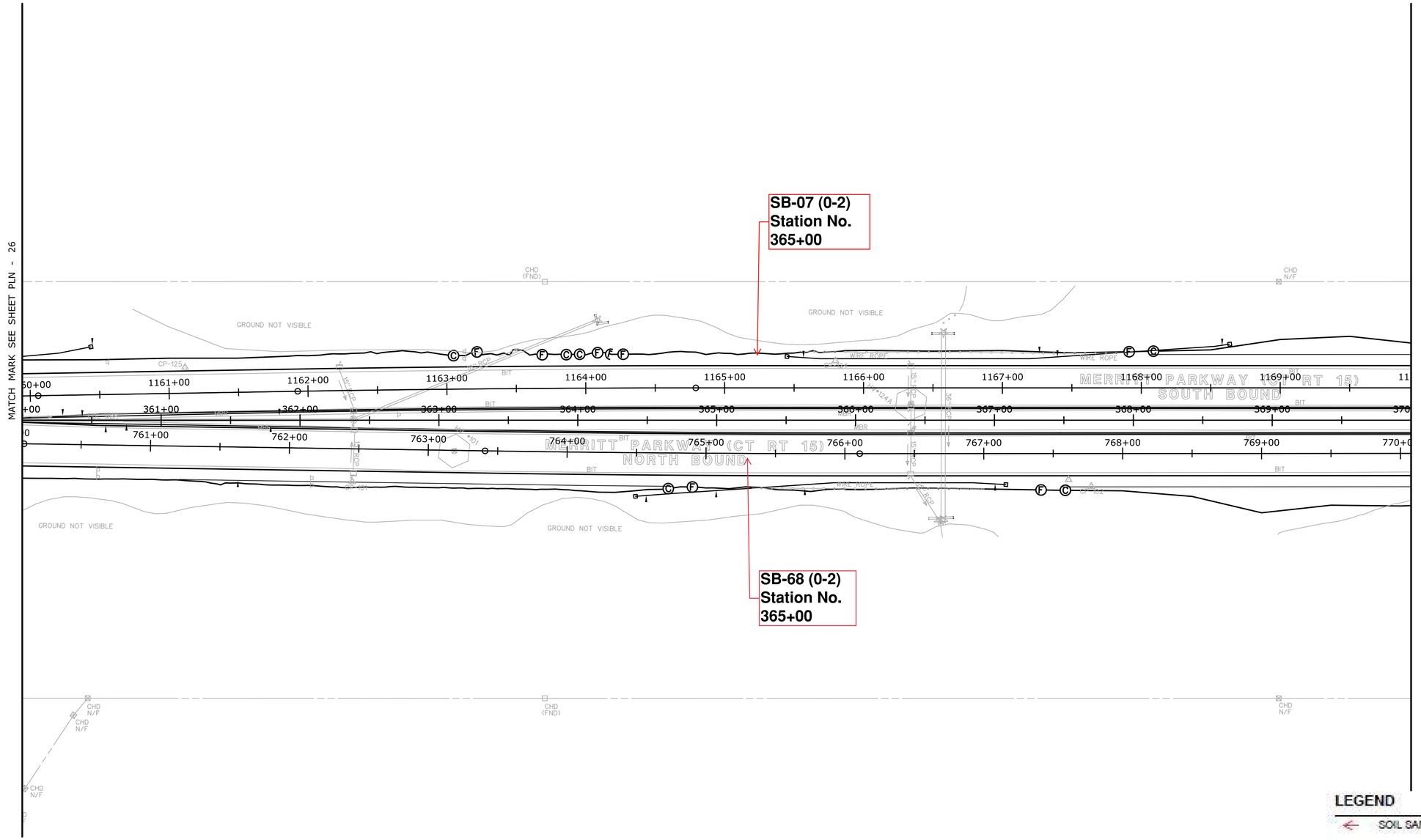
DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-368

DRAWING NO
FIGURE 2-26

SHEET NO.





LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

CHECKED BY

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-27.dgn

SIGNATURE/ BLOCK:

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

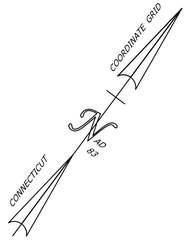
TOWN:
NEW CANAAN, NORWALK, WESTPORT

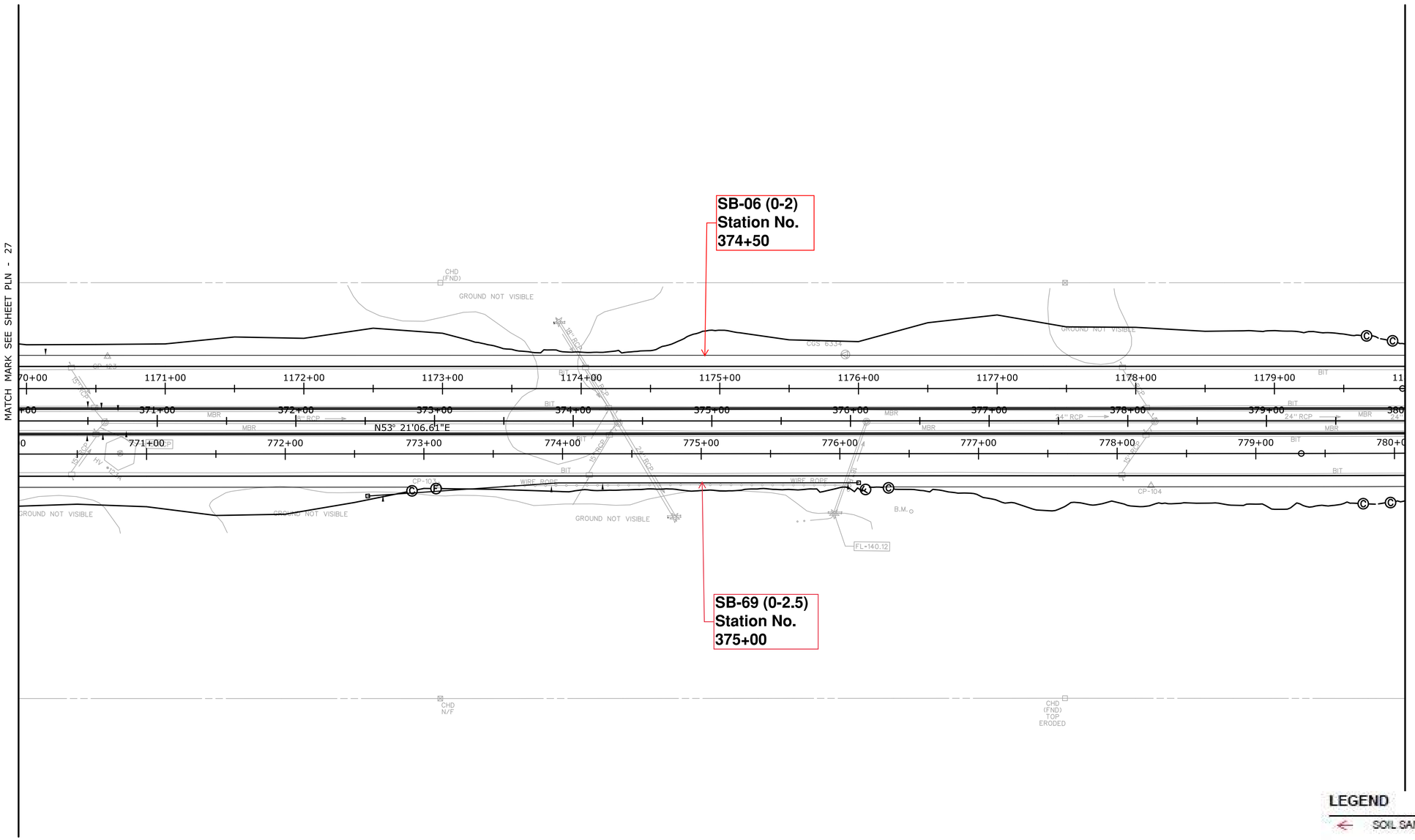
DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-368

DRAWING NO.
FIGURE 2-27

SHEET NO.





LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

CHECKED BY:

SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-28.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

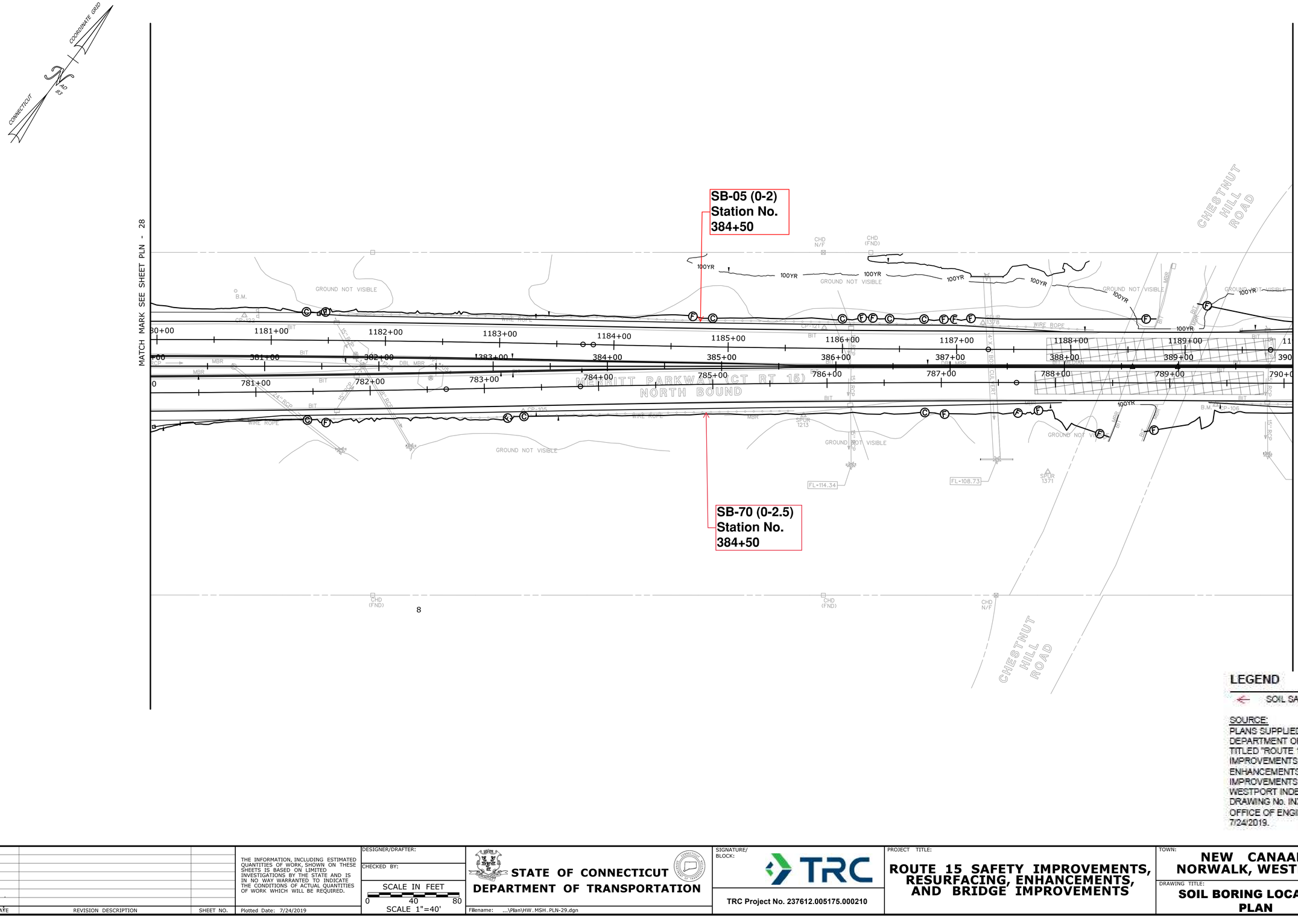
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-368

DRAWING NO.
FIGURE 2-28

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

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SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-29.dgn

SIGNATURE/ BLOCK:

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

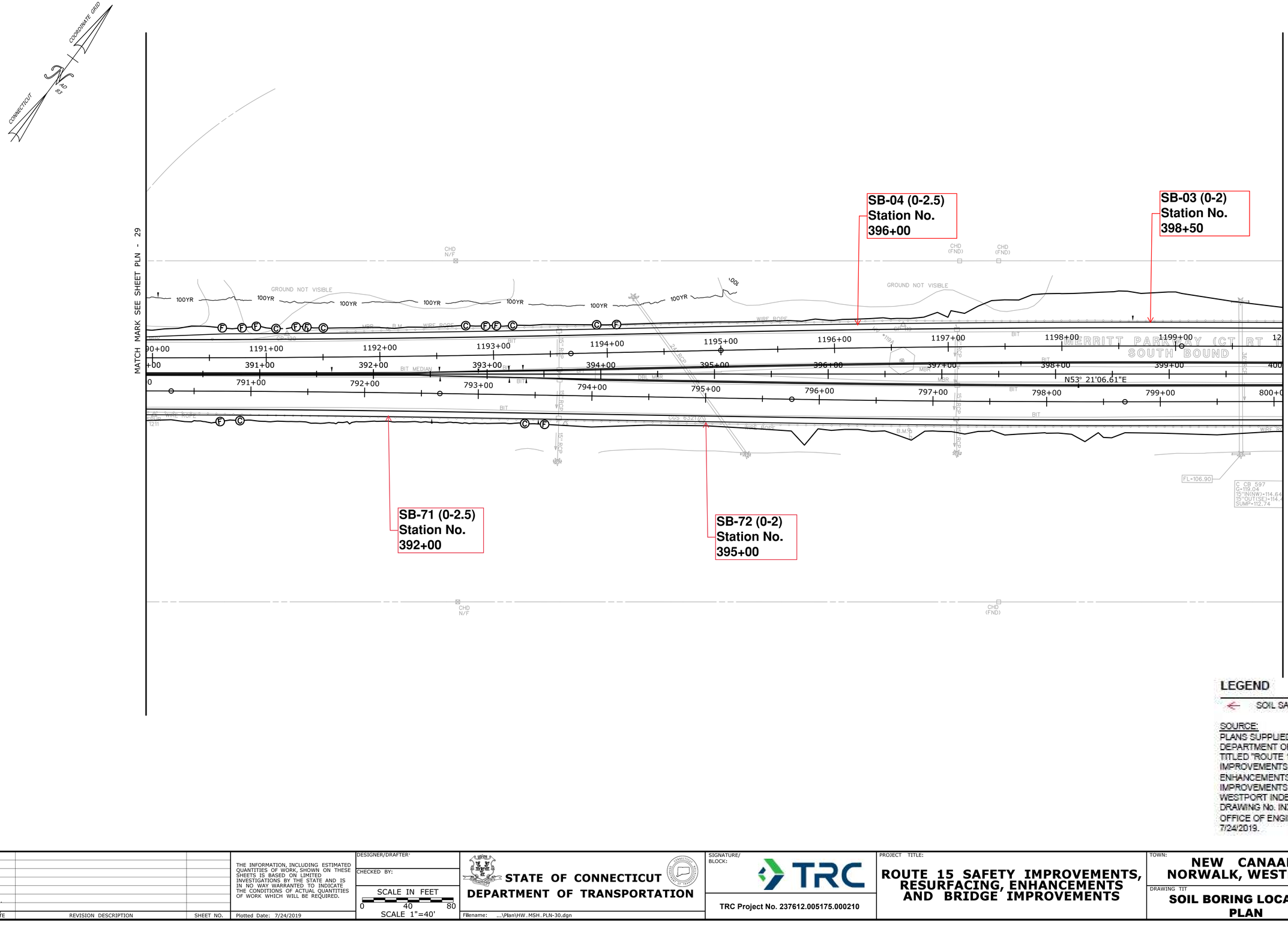
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO
102-368

DRAWING NO.
FIGURE 2-29

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

CHECKED BY:

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-30.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS AND BRIDGE IMPROVEMENTS

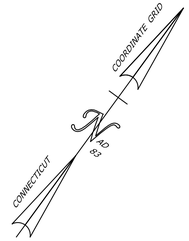
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TIT
SOIL BORING LOCATION PLAN

PROJECT NO
102-368

DRAWING NO.
FIGURE 2-30

SHEET NO.



MATCH MARK SEE SHEET PLN - 30

MATCH MARK SEE SHEET PLN - 32

GROUND NOT VISIBLE

INTERRITT PARKWAY (CT RT 15)
NORTH BOUND

SB-73 (0-4)
Station No.
404+50

LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER:

CHECKED BY:

SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-31.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

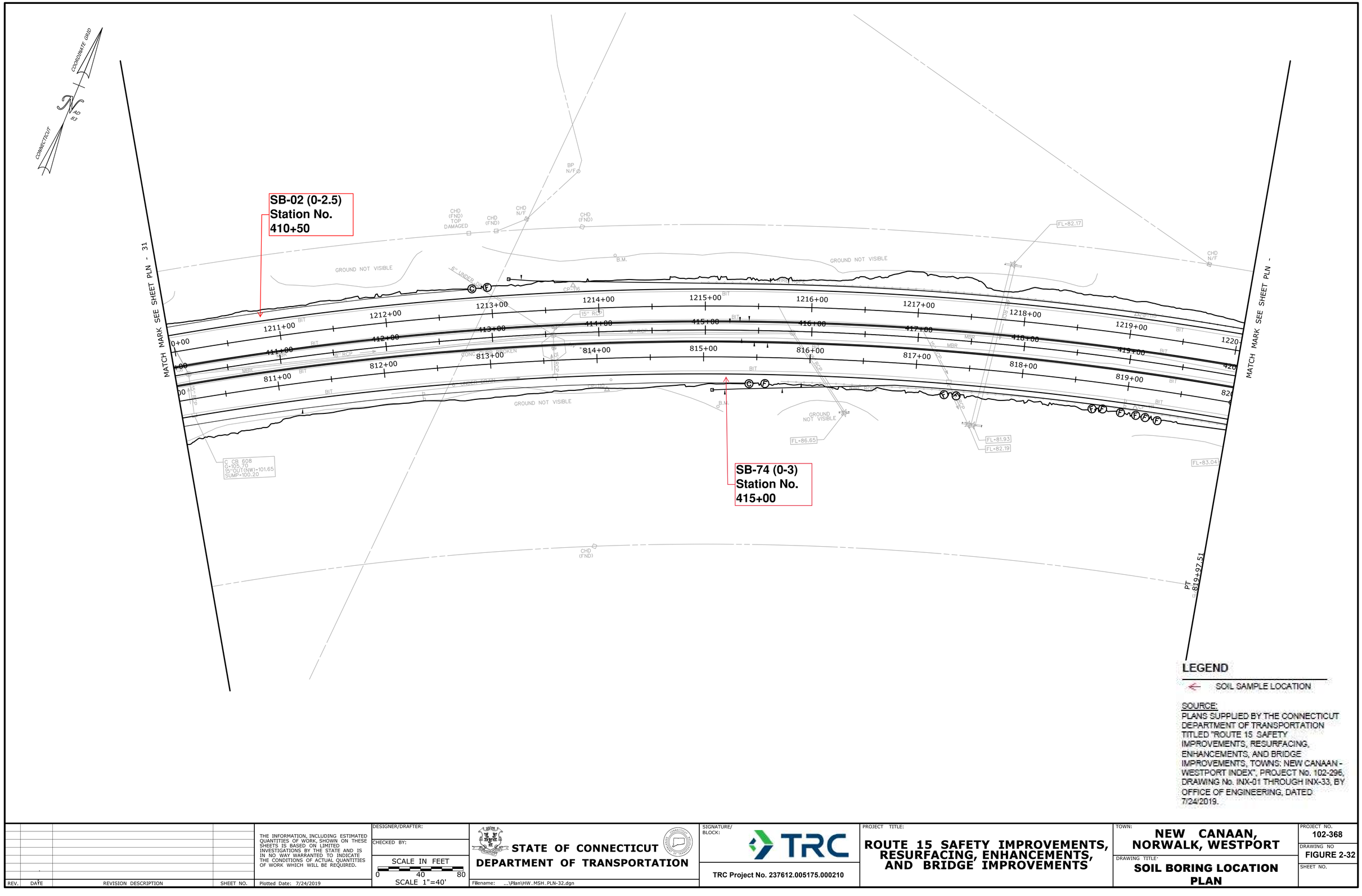
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-368

DRAWING NO.
FIGURE 2-31

SHEET NO.



LEGEND

SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH INX-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 7/24/2019

DESIGNER/DRAFTER:

CHECKED BY:

SCALE IN FEET
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SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_PLN-32.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

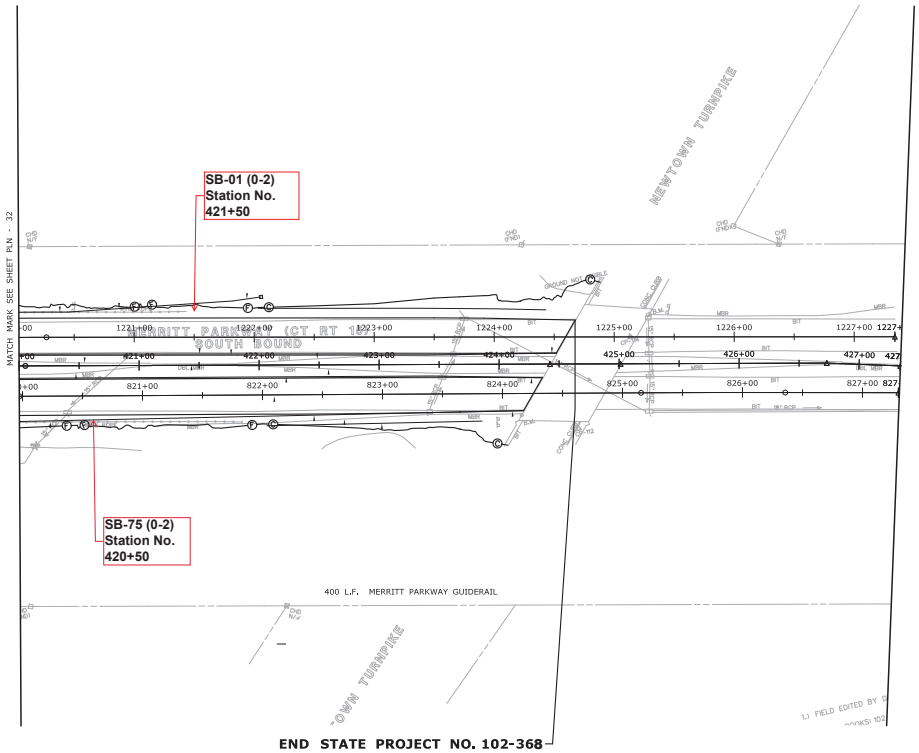
TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-368

DRAWING NO
FIGURE 2-32

SHEET NO.



LEGEND

← SOIL SAMPLE LOCATION

SOURCE:
PLANS SUPPLIED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION TITLED "ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS, TOWNS: NEW CANAAN - WESTPORT INDEX", PROJECT No. 102-296, DRAWING No. INX-01 THROUGH IN3-33, BY OFFICE OF ENGINEERING, DATED 7/24/2019.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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DESIGNER/DRAFTER:

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SCALE IN FEET
0 40 80
SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\INX_MSH_PLN33.dgn

SIGNATURE/ BLOCK:

TRC

TRC Project No. 237612.005175.000210

PROJECT TITLE:
ROUTE 15 SAFETY IMPROVEMENTS, RESURFACING, ENHANCEMENTS, AND BRIDGE IMPROVEMENTS

TOWN:
NEW CANAAN, NORWALK, WESTPORT

DRAWING TITLE:
SOIL BORING LOCATION PLAN

PROJECT NO.
102-368

DRAWING NO
FIGURE 2-33

SHEET NO.

TABLES

Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-01	Southbound	421+50	4/20/2020	5.0	5/4.5	0-0.2 TOPSOIL 0.2-1.2 Medium brown, fine to medium SAND, little medium to coarse gravel, trace silt, loose, dry, no odor, no staining 1.2-3.0 Light brown, fine to medium SAND, little medium to coarse gravel, trace silt, loose, dry, no odor, no staining 3.0-4.5 Light brown, fine to medium SAND, little medium to coarse gravel, trace silt, loose, wet, no odor, no staining	2.5	Sample SB-01 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-02	Southbound	410+50	4/20/2020	5.0	5/4.0	0-0.4 TOPSOIL 0.4-0.9 Medium brown, fine to medium SAND, little medium to coarse gravel, trace silt, loose, dry, no odor, no staining 0.9-4.0 Light brown, fine to medium SAND, little medium to coarse gravel, trace silt, medium dense, moist, no odor, no staining	2	Sample SB-02 (0-2.5) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-03	Southbound	398+50	4/20/2020	3.5	5/4.1	0-0.7 TOPSOIL 0.7-2.1 Light gray, fine to medium SAND, little medium to coarse gravel, loose, dry, no odor, no staining 2.1-4.1 Light brown, fine to medium SAND, little medium to coarse gravel, trace silt, medium dense, moist, no odor, no staining	1.8	Sample SB-03 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-04	Southbound	396+00	4/20/2020	3.0	5/4.8	0-1.9 TOPSOIL 1.9-4.8 Light brown, fine to medium SAND, little medium to coarse gravel, trace silt, trace clay, medium dense, moist, no odor, no staining	0.8	Sample SB-04 (0-2.5) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-05	Southbound	384+50	4/20/2020	3.0	5/4.0	0-1.5 TOPSOIL 1.5-4.0 Light brown, fine to medium SAND, little medium to coarse gravel, trace silt, trace clay, medium dense, moist, no odor, no staining	0.8	Sample SB-05 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-06	Southbound	374+50	4/20/2020	3.0	5/3.8	0-0.9 TOPSOIL 0.9-2.8 Medium brown, fine to medium SAND, little medium to coarse gravel, trace silt, trace wood, medium dense, moist, no odor, no staining 2.8-3.8 Light brown, fine to medium SAND, little medium to coarse gravel, trace silt, trace clay, medium dense, wet, no odor, no staining	1.9	Sample SB-06 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-07	Southbound	365+00	4/20/2020	4.2	5/3.6	0-0.8 TOPSOIL 0.8-3.6 Medium brown, fine to medium SAND, little medium to coarse gravel, trace silt, trace clay, medium dense, moist, no odor, no staining	1.3	Sample SB-07 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead. Refusal at 4.0'
SB-08	Southbound	355+00	4/20/2020	4.0	5/3.7	0-0.4 TOPSOIL 0.4-1.4 Dark brown, fine to medium SAND, little medium to coarse gravel, trace silt, trace organics, medium dense, dry, no odor, no staining 1.4-3.7 Medium brown, fine to medium SAND, little medium to coarse gravel, trace silt, trace clay, medium dense, moist, no odor, no staining	1.8	Sample SB-08 (0-3) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead

*Boring locations were completed within the general limits of each Project Station Number Area.

Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-09	Southbound	345+00	4/20/2020	4.0	5/2.8	0-0.8 TOPSOIL 0.8-2.4 Light brown, fine to medium SAND, little medium to coarse gravel, trace silt, loose, dry, no odor, no staining 2.4-2.8 Pulverized rock	2.5	Sample SB-09 (0-2.5) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead. Initial refusal at 2.2'.
SB-10	Southbound	340+00	4/20/2020	3.6	5/3.2	0-0.9 TOPSOIL 0.9-2.4 Medium brown, fine to medium SAND, little medium to coarse gravel, trace silt, loose, dry, no odor, no staining 2.4-3.2 Light brown, fine to medium SAND, some fine to medium gravel, trace silt, loose, dry, no odor, no staining	2.6	Sample SB-10 (0-3) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead. Refusal at 4.0'
SB-11	Southbound	335+00	4/20/2020	3.6	5/3.8	0-0.4 TOPSOIL 0.4-2.0 Dark brown, fine to medium SAND, little medium to coarse gravel, trace silt, loose, dry, no odor, no staining 2.0-3.8 Light brown, fine to medium SAND, some silt, trace fine to medium gravel, loose, dry, no odor, no staining	3.5	Sample SB-11 (0-2) and SB-11B (0-2) [duplicate] collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-12	Southbound	323+50	4/20/2020	4.0	5/3.0	0-0.7 TOPSOIL 0.7-3.0 Light brown, fine to medium SAND, little fine to coarse gravel, trace silt, loose, dry, no odor, no staining	2.4	Sample SB-12 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-13	Southbound	315+00	4/20/2020	4.0	5/3.8	0-0.4 TOPSOIL 0.4-2.6 Dark brown, fine to medium SAND, trace medium to coarse gravel, trace silt, loose, dry, no odor, no staining 2.6-3.8 Light brown, fine to medium SAND, some silt, trace fine to coarse gravel, loose, moist, no odor, no staining	1.6	Sample SB-13 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-14	Southbound	306+00	4/20/2020	4.0	5/2.4	0-0.6 TOPSOIL 0.6-1.4 Medium brown, fine to medium SAND, little fine to coarse gravel, trace silt, loose, dry, no odor, no staining 1.4-2.4 Light brown, medium to coarse SAND, some fine to coarse gravel, trace silt, loose, dry, no odor, no staining	0.8	Sample SB-14 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead. Refusal at 4.0'
SB-15	Southbound	297+00	4/20/2020	8.0	5/3.0	0-0.4 TOPSOIL 0.4-1.2 Medium brown, fine to medium SAND, trace fine to coarse gravel, trace silt, loose, dry, no odor, no staining 1.2-3.0 Light brown, fine to medium SAND, some silt, trace fine gravel, loose, moist, no odor, no staining	1.3	Sample SB-15 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-16	Southbound	286+50	4/21/2020	2.7	5/3.0	0-1.0 TOPSOIL 1.0-1.4 Medium brown, fine to medium SAND, little fine to coarse gravel, trace silt, loose, dry, no odor, no staining 1.2-3.0 Light brown, fine to medium SAND, little silt, trace fine to coarse gravel, loose, moist, no odor, no staining	1.4	Sample SB-16 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals

*Boring locations were completed within the general limits of each Project Station Number Area.

Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-17	Southbound	276+00	4/21/2020	2.0	5/2.6	0-0.5 TOPSOIL 0.5-1.4 Medium gray, fine to medium SAND, some fine to coarse gravel, trace silt, medium dense, moist, no odor, no staining 1.2-2.6 Light gray, fine SAND, some silt, trace fine to medium gravel, medium dense, dry, no odor, no staining	1.1	Sample SB-17 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-18	Southbound	264+00	4/21/2020	1.8	5/3.0	0-0.8 TOPSOIL 0.8-1.5 Medium brown, fine to medium SAND, little fine to coarse gravel, trace silt, loose, dry, no odor, no staining 1.5-3.0 Light brown, fine to medium SAND, little silt, trace fine to coarse gravel, loose, moist, no odor, no staining	1	Sample SB-18 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-19	Southbound	256+00	4/21/2020	4.2	5/2.6	0-1.2 TOPSOIL 01.2-2.6 Medium brown, fine to medium SAND, some silt, little fine to coarse gravel, loose, moist, no odor, no staining	1.6	Sample SB-19 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-20	Southbound	237+00	4/21/2020	4.3	5/4.1	0-0.5 TOPSOIL 0.5-1.0 Medium brown, fine to medium SAND, little fine to coarse gravel, trace silt, medium dense, dry, no odor, no staining 1.0-4.1 Light brown, fine to medium SAND, little silt, trace fine to medium gravel, medium dense, moist, no odor, no staining	1.2	Sample SB-20 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-21	Southbound	232+50	4/21/2020	3.8	5/4.0	0-0.8 TOPSOIL 0.8-1.4 Medium brown, fine to medium SAND, little fine to coarse gravel, trace silt, medium dense, dry, no odor, no staining 1.4-4.0 Light brown, fine to medium SAND, little silt, trace fine to medium gravel, medium dense, moist, no odor, no staining	1.3	Sample SB-21 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-22	Southbound	225+00	4/21/2020	4.4	5/4.9	0-1.2 TOPSOIL 1.2-1.4 Light brown, fine to medium SAND, some silt, little fine to coarse gravel, loose, dry, no odor, no staining 4.6-4.9 Medium brown, fine to medium SAND, some silt, trace fine to medium gravel, medium dense, moist, no odor, no staining	0.9	Sample SB-22 (0-2) and SB-22B (0-2) [duplicate] collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-23	Southbound	215+00	4/21/2020	3.7	5/4.8	0-1.4 TOPSOIL 1.4-2.0 Dark brown, fine to medium SAND, trace fine to coarse gravel, trace silt, loose, moist, no odor, no staining 2.0-4.8 Light brown, fine to medium SAND, some silt, trace fine to medium gravel, medium dense, moist, no odor, no staining	1	Sample SB-23 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-24	Southbound	207+00	4/21/2020	4.0	5/3.0	0-1.2 TOPSOIL 1.2-1.8 Medium brown, fine to medium SAND, trace fine to coarse gravel, trace silt, medium dense, moist, no odor, no staining 1.8-3.0 Light brown, fine SAND, some silt, trace fine to medium gravel, medium dense, moist, no odor, no staining	1.1	Sample SB-24 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead

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Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-25	Southbound	201+00	4/21/2020	10.5	5/3.0	0-1.2 TOPSOIL 1.2-3.0 Medium brown, fine to medium SAND, some silt, trace fine to coarse gravel, medium dense, moist, no odor, no staining	1.1	Sample SB-25 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-26	Southbound	186+50	4/21/2020	4.0	5/5.0	0-0.6 TOPSOIL 0.6-2.2 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, loose, dry, no odor, no staining 2.2-4.0 Medium gray, fine to medium SAND, little silt, trace fine to medium gravel, medium dense, dry, no odor, no staining 4.0-5.0 Light gray, fine SAND and SILT, dense, moist, no odor, no staining	1	Sample SB-26 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-27	Southbound	178+00	4/21/2020	2.4	5/3.0	0-0.4 TOPSOIL 0.4-2.4 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, medium dense, dry, no odor, no staining 2.4-3.0 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, dense, moist, no odor, no staining	0.5	Sample SB-27 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 M, total RCRA 8 Metals, and SPLP lead
SB-28	Southbound	166+50	4/21/2020	5.6	5/3.9	0-0.9 TOPSOIL 0.9-2.0 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, medium dense, dry, no odor, no staining 2.0-3.9 Medium brown, fine to medium SAND, some silt, trace fine to coarse gravel, dense, moist, no odor, no staining	0.6	Sample SB-28 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP arsenic and lead
SB-29	Southbound	157+50	4/21/2020	6.0	5/2.7	0-0.6 TOPSOIL 0.6-1.2 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, loose, dry, no odor, no staining 1.2-2.7 Light brown, fine SAND and SILT, trace fine to coarse gravel, dense, moist, no odor, no staining	1	Sample SB-29 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-30	Southbound	149+00	4/21/2020	4.6	5/2.9	0-0.8 TOPSOIL 0.8-2.1 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, loose, dry, no odor, no staining 2.1-2.9 Light brown, fine SAND and SILT, dense, moist, no odor, no staining	0.4	Sample SB-30 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-31	Southbound	146+50	4/22/2020	4.3	5/3.6	0-1.2 TOPSOIL 1.2-3.6 Medium gray, fine to medium SAND, some silt, trace fine to coarse gravel, dense, moist, no odor, no staining	0.7	Sample SB-31 (0-3) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-32	Southbound	136+50	4/22/2020	2.8	5/3.4	0-0.7 TOPSOIL 0.7-3.4 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, medium dense, moist, no odor, no staining	1.2	Sample SB-32 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals

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Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-33	Southbound	126+50	4/22/2020	3.8	5/2.4	0-1.0 TOPSOIL 1.0-2.4 Dark brown, fine to medium SAND, trace fine to coarse gravel, trace silt, medium dense, moist, no odor, no staining	0.8	Sample SB-33 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-34	Southbound	116+50	4/22/2020	2.8	5/4.8	0-1.0 TOPSOIL 1.0-2.4 Dark brown, fine to medium SAND, trace fine to coarse gravel, trace silt, medium dense, moist, no odor, no staining 2.4-4.1 Medium brown, fine SAND and SILT, trace fine gravel, medium dense, moist, no odor, no staining 4.1-4.8 Light brown, fine SAND and SILT, moist, no odor, no staining	0.8	Sample SB-34 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP arsenic and lead
SB-35	Southbound	113+00	4/22/2020	3.0	5/4.8	0-1.6 TOPSOIL 1.6-4.3 Medium brown, fine to medium SAND, some silt, trace fine to coarse gravel, medium dense, moist, no odor, no staining 4.3-4.8 Light brown, fine SAND and SILT, dense, moist, no odor, no staining	0.5	Sample SB-35 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-36	Southbound	107+50	4/22/2020	1.0	5/3.8	0-1.0 TOPSOIL 1.0-2.6 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, medium dense, dry, no odor, no staining 2.6-3.8 Light gray, fine to medium SAND, some SILT, dense, moist, no odor, no staining	0.7	Sample SB-36 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-37	Southbound	104+00	4/22/2020	1.0	5/4.3	0-0.4 TOPSOIL 0.4-1.6 Dark brown, fine to medium SAND, little fine to medium gravel, trace silt, medium dense, dry, no odor, no staining 1.6-4.3 Light brown, fine to medium SAND, some SILT, medium dense, moist, no odor, no staining	1	Sample SB-37 (0-3) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-38	Northbound	103+00	4/22/2020	2.0	5/3.0	0-0.8 TOPSOIL 0.8-3.0 Medium brown, fine to medium SAND, little fine to medium gravel, trace silt, medium dense, dry, no odor, no staining	1.2	Sample SB-38 (0-3) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-39	Northbound	106+50	4/22/2020	1.4	5/4.3	0-0.6 TOPSOIL 0.6-2.4 Medium brown, fine to medium SAND, little fine to medium gravel, trace silt, loose, dry, no odor, no staining 2.4-4.3 Medium gray, fine to medium SAND, trace fine to medium gravel, trace silt, medium dense, dry, no odor, no staining	0.8	Sample SB-39 (0-5) and SB-39B [duplicate] collected and analyzed for ETPH, VOC, PAHs, Pesticides, and Total RCRA 8 Metals
SB-40	Northbound	109+00	4/22/2020	0.8	5/3.0	0-0.8 TOPSOIL 0.8-1.4 Medium brown, fine to medium SAND, little fine to medium gravel, trace silt, loose, dry, no odor, no staining 1.4-3.0 Light gray, fine to medium SAND, trace fine to medium gravel, trace silt, medium dense, dry, no odor, no staining	1.4	Sample SB-40 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals

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Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-41	Northbound	118+00	4/22/2020	4.5	5/4.0	0-1.3 TOPSOIL 1.3-3.6 Dark brown, fine to medium SAND, some silt, little fine to medium gravel, loose, dry, no odor, no staining 3.6-4.0 Light gray, fine SAND, some silt, little fine gravel, medium dense, moist, no odor, no staining	0.9	Sample SB-41 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-42	Northbound	126+00	4/22/2020	4.8	5/2.9	0-1.0 TOPSOIL 1.0-2.9 Medium brown, fine to medium SAND, little fine to medium gravel, trace silt, loose, dry, no odor, no staining	0.8	Sample SB-42 (0-2.5) collected and analyzed forVOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals. Refusal at 4.0'
SB-43	Northbound	133+50	4/22/2020	5.0	5/3.4	0-1.3 TOPSOIL 1.3-3.4 Dark brown, fine to medium SAND, little fine to medium gravel, trace silt, loose, dry, no odor, no staining	0.8	Sample SB-43 (0-3) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-44	Northbound	136+50	4/22/2020	4.8	5/3.6	0-1.3 TOPSOIL 1.3-2.9 Dark brown, fine to medium SAND, some silt, little fine to medium gravel, medium dense, moist, no odor, no staining 2.9-3.6 Light gray, fine SAND and SILT, loose, dry, no odor, no staining	1.2	Sample SB-44 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-45	Northbound	147+00	4/22/2020	7.6	5/3.7	0-1.0 TOPSOIL 1.0-2.7 Dark brown, fine to medium SAND, little silt, trace fine gravel, medium dense, moist, no odor, no staining 2.7-3.7 Light gray, fine SAND and SILT, medium dense, dry, no odor, no staining	1.4	Sample SB-45 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-46	Northbound	157+50	4/23/2020	4.7	5/2.7	0-1.1 TOPSOIL 1.1-2.2 Medium brown, fine to medium SAND, some silt, little fine to medium gravel, medium dense, moist, no odor, no staining 2.2-2.7 Light brown, fine SAND and SILT, medium dense, moist, no odor, no staining	0	Sample SB-46 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-47	Northbound	166+50	4/23/2020	2.2	5/3.6	0-1.0 TOPSOIL 1.0-3.2 Light gray, fine to medium SAND, some silt, little fine to medium gravel, medium dense, dry, no odor, no staining 3.2-3.6 Light brown, fine SAND and SILT, trace fine gravel, medium dense, moist, no odor, no staining	0.6	Sample SB-47 (0-2.5) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-48	Northbound	176+50	4/23/2020	2.2	5/3.0	0-1.2 TOPSOIL 1.2-3.0 Medium brown, fine to medium SAND, some silt, little fine to medium gravel, medium dense, moist, no odor, no staining	0.8	Sample SB-48 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-49	Northbound	184+50	4/23/2020	3.6	5/2.9	0-1.2 TOPSOIL 1.2-2.9 Medium brown, fine to medium SAND, some silt, little fine to medium gravel, medium dense, moist, no odor, no staining	0.4	Sample SB-49 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals

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Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-50	Northbound	202+00	4/23/2020	2.4	5/3.4	0-0.8 TOPSOIL 0.8-2.6 Medium brown, fine to medium SAND, little silt, trace fine to coarse gravel, loose, dry, no odor, no staining 2.6-3.4 Medium gray, fine to medium SAND, some silt, trace fine gravel, medium dense, dry, no odor, no staining	0.6	Sample SB-50 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-51	Northbound	207+00	4/23/2020	4.1	5/4.0	0-0.6 TOPSOIL 0.6-2.5 Dark brown, fine to medium SAND, some silt, trace fine to medium gravel, medium dense, moist, no odor, no staining 2.5-4.0 Light brown, fine to medium SAND, some silt, trace fine gravel, medium dense, moist, no odor, no staining	0.8	Sample SB-51 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-52	Northbound	216+50	4/23/2020	3.6	5/4.0	0-1.0 TOPSOIL 1.0-2.0 Light brown, fine to medium SAND, some fine to medium gravel, trace silt, loose, moist, no odor, no staining 2.0-3.8 Medium gray, fine SAND and SILT, trace fine gravel, medium dense, moist, no odor, no staining 3.8-4.0 Dark gray, fine SAND and SILT, trace fine gravel, medium dense, moist, no odor, no staining	0.6	Sample SB-52 (0-2) and SB-52B [duplicate] collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-53	Northbound	226+50	4/23/2020	3.6	5/3.2	0-0.8 TOPSOIL 0.8-2.9 Dark brown, fine to medium SAND, trace fine to medium gravel, trace silt, loose, moist, no odor, no staining 2.9-3.2 Light brown, fine SAND and SILT, trace fine gravel, medium dense, moist, no odor, no staining	0.8	Sample SB-53 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-54	Northbound	239+00	4/23/2020	7.0	5/2.6	0-1.2 TOPSOIL 1.2-2.6 Dark brown, fine to medium SAND, little silt, trace fine to medium gravel, medium dense, moist, no odor, no staining	0.7	Sample SB-54 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-55	Northbound	246+00	4/23/2020	1.8	5/3.0	0-1.1 TOPSOIL 1.1-1.8 Medium gray, fine to medium SAND, some fine to medium gravel, trace silt, loose, moist, no odor, no staining 1.8-3.0 Dark brown, fine SAND and SILT, trace fine gravel, medium dense, moist, no odor, no staining	0.9	Sample SB-55 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-56	Northbound	254+50	4/23/2020	3.2	5/2.8	0-0.7 TOPSOIL 0.7-1.5 Medium brown, fine to medium SAND, little fine to medium gravel, trace silt, loose, moist, no odor, no staining 1.5-2.8 Light gray, fine to medium SAND, little silt, trace fine gravel, medium dense, moist, no odor, no staining	0.6	Sample SB-56 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals. Refusal at 4.0'
SB-57	Northbound	265+50	4/23/2020	2.6	5/3.0	0-0.6 TOPSOIL 0.6-2.4 Medium gray, fine to medium SAND, some fine to medium gravel, trace silt, medium dense, dry, no odor, no staining 2.4-3.0 Light brown, fine to medium SAND, some silt, trace fine gravel, medium dense, moist, no odor, no staining	0.7	Sample SB-57 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals

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Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-58	Northbound	277+00	4/23/2020	1.8	5/3.6	0-1.2 TOPSOIL 1.2-2.9 Light brown, fine to medium SAND, trace fine to medium gravel, trace silt, medium dense, moist, no odor, no staining 2.9-3.6 Dark gray, fine to medium SAND, some silt, trace fine gravel, medium dense, moist, no odor, no staining	1	Sample SB-58 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-59	Northbound	279+00	4/23/2020	3.0	5/2.5	0-1.0 TOPSOIL 1.0-1.8 Dark brown, fine to medium SAND, little fine to medium gravel, trace silt, medium dense, moist, no odor, no staining 1.8-2.5 Medium brown, fine to medium SAND, some silt, trace fine gravel, medium dense, moist, no odor, no staining	2	Sample SB-59 (0-2.5) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-60	Northbound	286+00	4/23/2020	7.6	5/2.0	0-0.9 TOPSOIL 0.9-1.3 Medium brown, fine to medium SAND, little fine to medium gravel, trace silt, medium dense, wet, no odor, no staining 1.3-2.0 Light brown, fine to medium SAND, some silt, trace fine gravel, medium dense, wet, no odor, no staining	1.8	Sample SB-60 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-61	Northbound	297+00	4/24/2020	3.0	5/2.1	0-1.3 TOPSOIL 1.3-2.1 Dark brown, fine to medium SAND, little fine to medium gravel, trace silt, loose, dry, no odor, no staining	0.4	Sample SB-61 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-62	Northbound	306+00	4/24/2020	6.8	5/3.6	0-0.8 TOPSOIL 0.8-2.6 Medium brown, fine to medium SAND, some fine to coarse gravel, trace silt, loose, moist, no odor, no staining 2.6-3.6 Medium gray, fine to medium SAND, little fine to medium gravel, little silt, medium dense, moist, no odor, no staining	0.8	Sample SB-62 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-63	Northbound	315+50	4/24/2020	5.7	5/3.7	0-1.1 TOPSOIL 1.1-3.7 Light gray, fine to medium SAND, some fine to medium gravel, little silt, loose, dry, no odor, no staining	0.2	Sample SB-63 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-64	Northbound	319+00	4/24/2020	3.4	5/2.7	0-1.3 TOPSOIL 1.3-1.8 Light brown, fine to medium SAND, some fine to medium gravel, trace silt, loose, moist, no odor, no staining 1.8-2.7 Medium gray, fine to medium SAND, some silt, little fine to medium gravel, medium dense, moist, no odor, no staining	0.3	Sample SB-64 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-65	Northbound	335+00	4/24/2020	3.6	5/3.0	0-0.8 TOPSOIL 0.8-2.2 Dark brown, fine to medium SAND, some fine to medium gravel, trace silt, loose, moist, no odor, no staining 2.2-3.0 Light brown, fine to medium SAND, little fine to medium gravel, trace silt, medium dense, moist, no odor, no staining	0.3	Sample SB-65 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead. Refusal at 3.5'

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Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-66	Northbound	345+50	4/24/2020	3.0	5/3.5	0-1.1 TOPSOIL 1.1-1.5 Medium brown, fine to medium SAND, little fine to medium gravel, trace silt, medium dense, wet, no odor, no staining 1.5-2.4 Medium gray, fine to medium SAND, little fine to medium gravel, little silt, medium dense, dry, no odor, no staining 2.4-3.5 Medium brown, fine to medium SAND, little fine to medium gravel, little silt, loose, dry, no odor, no staining	0.6	Sample SB-66 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead
SB-67	Northbound	355+00	4/24/2020	5.3	5/2.0	0-1.0 TOPSOIL 1.0-1.6 Pulverized rock 1.6-2.0 Dark brown, fine to medium SAND, trace fine to medium gravel, trace silt, medium dense, moist, no odor, no staining	0.5	Sample SB-67 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP arsenic
SB-68	Northbound	365+00	4/24/2020	4.8	5/3.0	0-0.8 TOPSOIL 0.8-1.8 Medium brown, fine to medium SAND, little fine to medium gravel, trace silt, medium dense, moist, no odor, no staining 1.8-3.0 Light brown, fine to medium SAND, little fine to medium gravel, trace silt, medium dense, moist, no odor, no staining	0.1	Sample SB-68 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-69	Northbound	375+00	4/24/2020	3.8	5/3.1	0-0.6 TOPSOIL 0.6-1.4 Medium brown, fine to medium SAND, trace fine to medium gravel, trace silt, medium dense, moist, no odor, no staining 1.4-3.1 Light brown, fine to medium SAND, some fine to coarse gravel, little silt, medium dense, moist, no odor, no staining	0.1	Sample SB-69 (0-2.5) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP arsenic
SB-70	Northbound	384+50	4/24/2020	2.9	5/2.5	0-0.9 TOPSOIL 0.9-1.4 Dark brown, fine SAND and SILT, trace gravel, medium dense, moist, no odor, no staining 2.1-2.5 Pulverized rock	0.2	Sample SB-70 (0-2.5) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP lead. Refusal at 3.5'
SB-71	Northbound	392+00	4/24/2020	3.3	5/4.0	0-1.0 TOPSOIL 1.0-2.4 Medium brown, fine to medium SAND, some silt, trace fine to medium gravel, loose, dry, no odor, no staining 2.4-3.3 Light gray, fine to medium SAND, some fine to coarse gravel, little silt, medium dense, dry, no odor, no staining 3.3-4.0 Dark gray, fine SAND and SILT, trace fine to medium gravel, medium dense, dry, no odor, no staining	0.2	Sample SB-71 (0-2.5) and SB-72B [duplicate] collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-72	Northbound	395+00	4/24/2020	2.6	5/3.4	0-0.6 TOPSOIL 0.6-1.0 Medium brown, fine to medium SAND, some silt, trace fine to medium gravel, medium dense, moist, no odor, no staining 1.0-3.4 Light gray, fine SAND and SILT, trace fine to medium gravel, medium dense, moist, no odor, no staining	0.3	Sample SB-72 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals

*Boring locations were completed within the general limits of each Project Station Number Area.

Table 1
Soil Description and Sample Summary
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

Boring ID	Merritt Parkway Direction	Project Station Number Area*	Completion Date	Distance from Asphalt (ft)	Total Depth (ft)/ Recovery (ft)	Soil Description (ft)	PID Reading (ppm)	Notes
SB-73	Northbound	404+50	4/24/2020	2.9	5/4.0	0-1.0 TOPSOIL 1.0-2.5 Medium brown, fine to medium SAND, some silt, trace fine to medium gravel, medium dense, moist, no odor, no staining 2.5-4.0 Light brown, fine to medium SAND, some fine to medium gravel, little silt, loose, moist, no odor, no staining	0.1	Sample SB-73 (0-4) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals
SB-74	Northbound	415+00	4/24/2020	4.9	5/3.4	0-0.8 TOPSOIL 0.8-1.3 Light brown, fine to medium SAND, little silt, little fine to coarse gravel, loose, dry, no odor, no staining 1.3-3.4 Light gray, fine to medium SAND, some fine to medium gravel, little silt, loose, moist, no odor, no staining	0.1	Sample SB-74 (0-3) collected and analyzed for VOCs, PAHs, ETPH, pesticides, total RCRA 8 Metals, and SPLP arsenic
SB-75	Northbound	420+50	4/24/2020	4.2	5/3.0	0-0.8 TOPSOIL 0.8-1.5 Light brown, fine to medium SAND, some silt, trace fine to coarse gravel, medium dense, moist, no odor, no staining 1.5-3.0 Light brown, fine to medium SAND, trace fine to medium gravel, trace silt, loose, moist, no odor, no staining	0.1	Sample SB-75 (0-2) collected and analyzed for VOCs, PAHs, ETPH, pesticides, and total RCRA 8 Metals

*Boring locations were completed within the general limits of each Project Station Number Area.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-01 (0-2) 4/20/2020 Soil 421+50	SB-02 (0-2.5) 4/20/2020 Soil 410+50	SB-03 (0-2) 4/20/2020 Soil 398+50	SB-04 (0-2.5) 4/20/2020 Soil 396+00	SB-05 (0-2) 4/20/2020 Soil 384+50	SB-06 (0-2) 4/20/2020 Soil 374+50	SB-07 (0-2) 4/20/2020 Soil 365+00	SB-08 (0-3) 4/20/2020 Soil 355+00	SB-09 (0-2.5) 4/20/2020 Soil 345+00	SB-10 (0-3) 4/20/2020 Soil 340+00
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			87	87	88	86	80	83	83	84	89	88
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	0.45	ND	ND	0.49	0.53	0.3	0.36	0.49	0.33	ND
Benzo(a)pyrene	1	1	0.52	0.27	ND	0.55	0.6	0.34	0.43	0.52	0.36	ND
Benzo(b)fluoranthene	1	1	0.5	0.26	ND	0.52	0.56	0.35	0.44	0.53	0.33	ND
Benzo(ghi)perylene	8.4*	1*	0.4	ND	ND	0.38	0.46	ND	0.29	0.37	0.27	ND
Benzo(k)fluoranthene	8.4	1	0.42	ND	ND	0.42	0.44	0.31	0.39	0.5	0.32	ND
Chrysene	84*	1*	0.5	0.29	ND	0.53	0.59	0.36	0.43	0.56	0.38	ND
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	1	0.52	0.41	1.1	1.1	0.67	0.65	1	0.56	0.3
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	0.4	ND	ND	0.39	0.47	0.3	0.3	0.39	0.26	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	0.4	ND	ND	0.6	0.53	0.31	0.28	0.51	0.38	ND
Pyrene	1,000	4	0.9	0.48	0.38	1	1.1	0.62	0.63	0.94	0.49	0.27
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	ND	ND	150	130	ND	120	ND	ND
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	ND	0.018	0.017	0.0078	ND	ND	ND	ND	0.0058	0.0046
4,4' -DDE	1.8*	0.003*	ND	0.22	0.12	0.046	0.027	0.036	0.053	0.047	0.045	0.041
4,4' -DDT	1.8*	0.003*	0.024	0.35	0.21	0.09	0.06	0.078	0.062	0.1	0.079	0.14
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	4.46	9.03	5.23	4.59	4.5	6	6.69	**38.5**	5.09	6.28
Barium	4,700	NE	64.3	57.7	93.1	79.1	304	63.5	59.3	75.7	77.5	71
Cadmium	34	NE	1	0.86	1.16	1.22	1.85	1.11	1.19	1.5	1.36	1.23
Chromium	100+	NE	18	17.4	26.9	25.5	31.4	21.8	26.1	25.9	22.7	22
Lead	400	NE	179	228	238	292	**410**	283	235	**431**	**520**	393
Mercury	20	NE	ND	0.05	0.04	0.05	0.1	ND	ND	0.1	ND	0.05
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	0.037	0.074	0.071	0.066	0.067	0.196	0.124	0.09	0.063

NOTES:
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RES DEC - Residential Direct Exposure Criteria, GA PMC - GA Pollutant Mobility Criteria,
ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each ND meets the specified criteria reporting unlimit unless otherwise noted by [ ], NA - Not analyzed, NE - No established remediation criteria for specific compound.
BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-11 (0-2) 4/20/2020 Soil 335+00	SB-11B (0-2) 4/20/2020 Soil 335+00 Duplicate	SB-12 (0-2) 4/20/2020 Soil 323+50	SB-13 (0-2) 4/20/2020 Soil 315+00	SB-14 (0-2) 4/20/2020 Soil 306+00	SB-15 (0-2) 4/20/2020 Soil 297+00	SB-16 (0-2) 4/21/2020 Soil 286+50	SB-17 (0-2) 4/21/2020 Soil 276+00	SB-18 (0-2) 4/21/2020 Soil 264+00	SB-19 (0-2) 4/21/2020 Soil 256+00
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			85	85	89	83	85	86	87	88	89	82
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	0.3	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	ND	ND	ND	0.38	0.48	ND	ND	ND	0.3	ND
Benzo(a)pyrene	1	1	ND	ND	ND	0.46	0.59	0.29	ND	ND	0.41	ND
Benzo(b)fluoranthene	1	1	ND	ND	ND	0.39	0.57	0.37	ND	ND	0.38	ND
Benzo(ghi)perylene	8.4*	1*	ND	ND	ND	0.34	0.4	ND	ND	ND	0.34	ND
Benzo(k)fluoranthene	8.4	1	ND	ND	ND	0.41	0.56	0.28	ND	ND	0.27	ND
Chrysene	84*	1*	ND	ND	ND	0.48	0.55	0.32	ND	ND	0.35	ND
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	ND	0.29	ND	0.57	0.73	0.32	ND	ND	0.49	0.37
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	ND	ND	0.35	0.41	ND	ND	ND	0.34	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	ND	ND	ND	0.31	0.44	ND	ND	ND	ND	ND
Pyrene	1,000	4	ND	0.3	ND	0.52	0.66	0.31	ND	ND	0.49	0.35
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	ND	110	ND	ND	ND	ND	ND	ND
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	0.002	ND	ND	0.0044	0.0036	ND	0.002	0.0028	ND	ND
4,4' -DDE	1.8*	0.003*	0.0095	0.01	0.0055	0.0097	0.0073	0.002	[0.017]	0.0024	ND	[0.018]
4,4' -DDT	1.8*	0.003*	0.029	0.032	0.013	0.022	0.017	0.0028	[0.012]	0.005	ND	[0.023]
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	5.72	6.19	5.65	4.73	3.94	6.51	3.43	5.13	3.18	3.92
Barium	4,700	NE	83.2	80	61.1	78	48.9	63.7	61.1	40.8	52.9	49.1
Cadmium	34	NE	1.28	1.34	1.03	1.43	1.12	1.19	0.73	0.85	0.86	0.95
Chromium	100+	NE	23.5	24.5	21.4	25.8	22.7	22.3	32.9	32.8	29.8	22.1
Lead	400	NE	257	231	99.5	**402**	349	210	69.6	58.3	17.4	123
Mercury	20	NE	0.04	ND	0.04	0.05	ND	ND	0.04	ND	ND	0.07
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	0.039	NA	NA	0.039	0.585	0.234	NA	NA	NA	NA

NOTES:
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BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-20 (0-2) 4/21/2020 Soil 237+00	SB-21 (0-2) 4/21/2020 Soil 232+50	SB-22 (0-2) 4/21/2020 Soil 225+00	SB-22B (0-2) 4/21/2020 Soil 225+00 Duplicate	SB-23 (0-2) 4/21/2020 Soil 215+00	SB-24 (0-2) 4/21/2020 Soil 207+00	SB-25 (0-2) 4/21/2020 Soil 201+00	SB-26 (0-2) 4/21/2020 Soil 186+50	SB-27 (0-2) 4/22/2020 Soil 178+00	SB-28 (0-2) 4/22/2020 Soil 166+50
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			88	81	90	92	84	86	88	91	89	86
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	ND	0.69	ND	ND	ND	ND	ND	ND	ND	0.3
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	ND	**2.4**	ND	ND	0.44	0.58	ND	ND	ND	0.58
Benzo(a)pyrene	1	1	ND	**2.7**	ND	ND	0.53	0.76	ND	ND	ND	0.7
Benzo(b)fluoranthene	1	1	ND	**2.1**	ND	ND	0.51	0.67	ND	ND	ND	0.64
Benzo(ghi)perylene	8.4*	1*	ND	1.8	ND	ND	0.43	0.65	ND	ND	ND	0.52
Benzo(k)fluoranthene	8.4	1	ND	2.1	ND	ND	0.43	0.58	ND	ND	ND	0.65
Chrysene	84*	1*	ND	2.3	ND	ND	0.53	0.71	ND	ND	ND	0.74
Dibenz(a,h)anthracene	1*	1*	ND	0.4	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	0.31	5.5	ND	ND	1	1.3	ND	0.29	ND	1
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	**2**	ND	ND	0.46	0.64	ND	ND	ND	0.48
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	ND	1.9	ND	ND	0.48	0.49	ND	ND	ND	0.68
Pyrene	1,000	4	0.29	4.8	ND	ND	0.96	1.2	ND	0.29	ND	0.94
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	73	220	ND	ND	ND	97	ND	ND	ND	120
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	ND	0.007	ND	ND	0.0048	0.0025	ND	[0.022]	ND	0.0043
4,4' -DDE	1.8*	0.003*	ND	0.0044	0.0055	0.0032	[0.021]	[0.011]	0.0018	[0.019]	ND	0.039
4,4' -DDT	1.8*	0.003*	ND	[0.014]	[0.018]	[0.01]	[0.053]	[0.025]	0.0027	[0.012]	ND	0.14
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	3.48	3.96	2.95	3.54	3.68	2.76	2.66	3.86	2.25	**11.2**
Barium	4,700	NE	47.4	83.8	47.1	49.1	51	61.8	47.9	57.1	36.6	66.3
Cadmium	34	NE	0.86	1.35	0.72	0.75	0.96	0.93	0.7	0.76	0.66	1.45
Chromium	100+	NE	21.3	31.6	15.1	29.2	20.2	20.3	15.9	14.5	15.4	25
Lead	400	NE	153	**918**	201	189	284	248	56.1	160	7.99	**432**
Mercury	20	NE	0.03	0.06	ND	ND	0.04	0.06	ND	0.05	ND	0.28
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005
SPLP Lead	NE	0.015	NA	0.216	0.165	NA	0.061	0.165	NA	0.137	0.032	0.085

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ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each ND meets the specified criteria reporting unlimit unless otherwise noted by [ ], NA - Not analyzed, NE - No established remediation criteria for specific compound.
BOLD value indicates an exceedance of the RES DEC
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* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-29 (0-2) 4/22/2020 Soil 157+50	SB-30 (0-2) 4/22/2020 Soil 149+00	SB-31 (0-3) 4/22/2020 Soil 146+50	SB-32 (0-2) 4/22/2020 Soil 136+50	SB-33 (0-2) 4/22/2020 Soil 126+50	SB-34 (0-2) 4/22/2020 Soil 116+50	SB-35 (0-2) 4/22/2020 Soil 113+00	SB-36 (0-2) 4/22/2020 Soil 107+50	SB-37 (0-3) 4/22/2020 Soil 104+00	SB-38 (0-3) 4/22/2020 Soil 103+00
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			85	86	90	88	84	87	84	86	92	88
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	0.0042	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	ND	0.31	ND	ND	ND	0.32	0.39	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND
Benz(a)anthracene	1	1	ND	0.8	0.37	0.39	0.7	0.7	**1.2**	0.4	ND	ND
Benzo(a)pyrene	1	1	ND	0.88	0.47	0.49	0.82	0.85	**1.2**	0.49	ND	ND
Benzo(b)fluoranthene	1	1	ND	0.68	0.43	0.43	0.74	0.82	**1.1**	0.44	ND	ND
Benzo(ghi)perylene	8.4*	1*	ND	0.61	0.42	0.4	0.68	0.72	0.83	0.3	ND	ND
Benzo(k)fluoranthene	8.4	1	ND	0.92	0.37	0.37	0.6	0.57	0.87	0.45	ND	ND
Chrysene	84*	1*	ND	0.89	0.42	0.41	0.75	0.83	1.1	0.44	ND	ND
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	ND	1.4	0.81	0.8	1.6	1.5	2.4	0.75	ND	ND
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	0.55	0.4	0.4	0.69	0.71	0.89	0.33	ND	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	ND	1.1	0.35	0.31	0.75	0.63	1.1	0.3	ND	ND
Pyrene	1,000	4	ND	1.3	0.75	0.76	1.5	1.5	2.2	0.71	ND	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	61	64	56	62	93	ND	ND	ND	ND
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	0.0017	0.0032	0.0034	0.0026	0.0044	0.0038	ND	ND	ND	ND
4,4' -DDE	1.8*	0.003*	0.0078	0.013	0.033	0.011	0.071	0.063	0.0031	0.0039	ND	0.0065
4,4' -DDT	1.8*	0.003*	0.012	0.03	0.08	0.047	0.16	0.24	0.0094	0.009	ND	0.0021
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	4.27	4.81	3.49	3.1	4.26	**17.2**	2.43	3.51	2.58	2.97
Barium	4,700	NE	67	57.4	46	62.9	67.5	46.3	64.9	93.3	56.5	73.5
Cadmium	34	NE	1.24	1.34	0.92	0.82	0.92	0.72	0.7	0.93	0.64	0.79
Chromium	100+	NE	24.9	23.8	17	30.9	23.8	60	24.8	25.4	17.3	27
Lead	400	NE	197	261	159	186	**595**	**518**	76.6	295	13	59.1
Mercury	20	NE	ND	0.03	ND	ND	0.05	ND	ND	ND	ND	0.003
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	0.043	NA	NA	NA	NA
SPLP Lead	NE	0.015	0.033	0.048	NA	NA	0.297	1.61	NA	0.095	NA	NA

NOTES:
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BOLD value indicates an exceedance of the RES DEC
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+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-39 (0-5) 4/22/2020 Soil 106+50	SB-39B (0-5) 4/22/2020 Soil 106+50 Duplicate	SB-40 (0-2) 4/22/2020 Soil 109+00	SB-41 (0-2) 4/22/2020 Soil 118+00	SB-42 (0-2.5) 4/22/2020 Soil 126+00	SB-43 (0-3) 4/22/2020 Soil 133+50	SB-44 (0-2) 4/22/2020 Soil 136+50	SB-45 (0-2) 4/22/2020 Soil 147+00	SB-46 (0-2) 4/23/2020 Soil 157+50	SB-47 (0-2.5) 4/23/2020 Soil 166+50
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			89	90	86	85	85	86	86	84	85	84
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	0.0067	0.011	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	2.3	0.82	ND	0.54	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	2	ND	ND	0.39	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	**6.4**	**1.8**	0.34	**1.2**	0.28	0.45	0.39	0.41	ND	ND
Benzo(a)pyrene	1	1	**6.2**	**1.8**	0.47	**1.3**	0.33	0.51	0.44	0.5	ND	ND
Benzo(b)fluoranthene	1	1	**4.9**	**1.4**	0.36	1	0.31	0.47	0.41	0.47	ND	ND
Benzo(ghi)perylene	8.4*	1*	2.9	1.2	0.49	0.95	0.29	0.41	0.31	0.38	ND	ND
Benzo(k)fluoranthene	8.4	1	4.2	1.2	0.36	0.99	0.28	0.36	0.3	0.37	ND	ND
Chrysene	84*	1*	6	1.7	0.36	1.3	0.34	0.51	0.41	0.43	ND	ND
Dibenz(a,h)anthracene	1*	1*	0.97	0.31	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	16	3.4	0.69	2.9	0.66	1	0.88	0.96	ND	ND
Fluorene	1,000	5.6	0.94	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	**3.2**	**1.2**	0.52	1	ND	0.42	0.36	0.42	ND	ND
Naphthalene			0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	7	1.4	0.3	2.1	0.28	0.42	0.38	0.37	ND	ND
Pyrene	1,000	4	15	3.4	0.62	2.9	0.65	0.93	0.78	0.88	ND	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	56	90	ND	81	140	69	83	ND	380	60
				3.4								
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	0.0025	ND	0.0099	0.0043	0.0033	0.0029	ND	0.0049	ND	ND
4,4' -DDE	1.8*	0.003*	0.055	0.028	0.045	0.031	0.034	0.0069	0.0033	0.081	0.0072	0.004
4,4' -DDT	1.8*	0.003*	0.064	0.044	0.13	0.15	0.11	0.052	0.01	0.17	0.018	0.016
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	1.36	1.3	3.06	3.88	3.96	2.86	3.97	4.35	3.82	4.65
Barium	4,700	NE	108	120	86.5	77.2	47.3	54.6	48.7	71.1	55.6	57.9
Cadmium	34	NE	1.04	1.5	0.88	0.9	0.76	0.9	1.13	1.11	0.95	1
Chromium	100+	NE	43.8	46.7	43.3	23.9	22.9	25.8	19.5	20.8	24.2	26.3
Lead	400	NE	49.8	52.5	121	307	201	249	155	208	344	26.7
Mercury	20	NE	ND	ND	0.05	0.12	0.04	0.04	ND	0.1	ND	ND
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	NA	0.181	NA	NA	NA	0.031	0.184	NA

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BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-48 (0-2) 4/23/2020 Soil 176+50	SB-49 (0-2) 4/23/2020 Soil 184+50	SB-50 (0-2) 4/23/2020 Soil 202+00	SB-51 (0-2) 4/23/2020 Soil 207+00	SB-52 (0-2) 4/23/2020 Soil 216+50	SB-52B (0-2) 4/23/2020 Soil 216+50 Duplicate	SB-53 (0-2) 4/23/2020 Soil 226+50	SB-54 (0-2) 4/23/2020 Soil 239+00	SB-55 (0-2) 4/23/2020 Soil 246+00	SB-56 (0-2) 4/23/2020 Soil 254+50
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			88	82	88	86	92	89	86	85	88	91
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	ND	0.52	0.37	ND	ND	ND	0.3	0.4	0.8	ND
Benzo(a)pyrene	1	1	ND	0.58	0.34	ND	ND	ND	0.34	0.46	0.94	ND
Benzo(b)fluoranthene	1	1	ND	0.54	0.28	ND	ND	ND	0.31	0.39	0.89	ND
Benzo(ghi)perylene	8.4*	1*	ND	0.41	ND	ND	ND	ND	0.31	0.34	0.61	ND
Benzo(k)fluoranthene	8.4	1	ND	0.42	ND	ND	ND	ND	0.29	0.4	0.65	ND
Chrysene	84*	1*	ND	0.57	0.35	ND	ND	ND	0.35	0.4	0.78	ND
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	0.39	0.99	0.77	ND	ND	0.35	0.68	0.9	1.6	ND
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	0.42	ND	ND	ND	ND	0.3	0.34	0.66	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	ND	0.48	0.55	ND	ND	ND	0.3	0.47	0.48	ND
Pyrene	1,000	4	0.39	0.93	0.7	ND	ND	0.32	0.61	0.81	1.5	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	ND	ND	ND	ND	120	ND	170	86
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	0.024	0.0043	ND	0.0073	0.0038	0.0026	ND	ND	ND	ND
4,4' -DDE	1.8*	0.003*	0.19	0.032	ND	0.0046	0.0072	0.0044	0.0053	0.024	0.0022	ND
4,4' -DDT	1.8*	0.003*	0.44	0.057	ND	0.0053	0.023	0.013	0.023	0.04	0.0025	ND
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	6.85	7.41	2.21	2.92	2.09	2.91	4.78	3.48	3.31	5.34
Barium	4,700	NE	52.7	51.2	46.1	41.7	42.4	40.4	56.5	52.9	51.4	59.9
Cadmium	34	NE	1.07	1.19	0.58	0.76	0.56	0.78	1.06	0.73	0.63	0.81
Chromium	100+	NE	21.1	28.6	18.9	17.3	10.5	13.4	28.3	15.9	15.2	28
Lead	400	NE	**613**	165	21.4	58.1	80.7	137	223	118	30.9	67.6
Mercury	20	NE	0.04	0.05	ND	0.04	ND	ND	0.05	0.04	0.05	ND
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	0.057	NA	NA	NA	NA	NA	0.422	NA	NA	NA

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Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-57 (0-2) 4/23/2020 Soil 265+50	SB-58 (0-2) 4/23/2020 Soil 277+00	SB-59 (0-2.5) 4/23/2020 Soil 279+00	SB-60 (0-2) 4/23/2020 Soil 286+00	SB-61 (0-2) 4/24/2020 Soil 297+00	SB-62 (0-2) 4/24/2020 Soil 306+00	SB-63 (0-2) 4/24/2020 Soil 315+50	SB-64 (0-2) 4/24/2020 Soil 319+00	SB-65 (0-2) 4/24/2020 Soil 335+00	SB-66 (0-2) 4/24/2020 Soil 345+50
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			91	88	88	86	90	93	86	83	82	88
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	0.28	0.35	ND	ND	0.55	ND	ND	0.32	0.3	ND
Benzo(a)pyrene	1	1	0.31	0.41	ND	ND	0.72	ND	ND	0.38	0.39	0.32
Benzo(b)fluoranthene	1	1	0.28	0.38	ND	ND	0.63	ND	ND	0.36	0.36	0.34
Benzo(ghi)perylene	8.4*	1*	ND	0.29	ND	ND	0.63	ND	ND	0.3	0.29	ND
Benzo(k)fluoranthene	8.4	1	ND	0.33	ND	ND	0.67	ND	ND	0.3	0.33	ND
Chrysene	84*	1*	0.33	0.35	ND	ND	0.65	ND	ND	0.39	0.38	0.31
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	0.65	0.52	0.36	ND	1.1	ND	0.34	0.66	0.64	0.48
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	0.32	ND	ND	0.61	ND	ND	0.29	ND	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	0.44	ND	ND	ND	0.51	ND	ND	0.3	ND	ND
Pyrene	1,000	4	0.57	0.54	0.33	ND	1	ND	0.3	0.59	0.57	0.45
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	ND	ND	ND	ND	0.025	ND	ND	0.0028	0.0061	0.0023
4,4' -DDE	1.8*	0.003*	ND	0.0057	0.016	ND	0.12	ND	0.0037	0.014	0.011	0.014
4,4' -DDT	1.8*	0.003*	ND	0.016	0.063	ND	0.37	0.0034	0.0071	0.032	0.044	0.038
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	4.4	3.66	1.93	4.9	4.74	2.3	6.49	5.14	5.4	4.22
Barium	4,700	NE	57.2	65.2	59.4	58.8	59.8	50.7	52.7	57.6	68.7	66.9
Cadmium	34	NE	0.7	0.87	0.68	0.71	0.94	0.66	0.93	1.15	1.14	1.06
Chromium	100+	NE	47.6	26.7	41.7	18.8	31.1	21.4	20.5	22.1	27.1	25.9
Lead	400	NE	154	151	149	64.2	**952**	209	189	341	301	244
Mercury	20	NE	ND	0.03	ND	ND	ND	ND	ND	ND	0.05	0.05
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	NA	NA	0.655	0.059	NA	0.206	0.375	0.244

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Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-67 (0-2) 4/24/2020 Soil 355+00	SB-68 (0-2) 4/24/2020 Soil 365+00	SB-69 (0-2.5) 4/24/2020 Soil 375+00	SB-70 (0-2.5) 4/24/2020 Soil 384+50	SB-71 (0-2.5) 4/24/2020 Soil 392+00	SB-71B (0-2.5) 4/24/2020 Soil 392+00 Duplicate	SB-72 (0-2) 4/24/2020 Soil 395+00	SB-73 (0-4) 4/24/2020 Soil 404+50	SB-74 (0-3) 4/24/2020 Soil 415+00	SB-75 (0-2) 4/24/2020 Soil 420+50
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			83	71	86	84	90	87	88	84	94	82
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	0.38	ND	0.32	0.47	0.4	0.33	0.32	ND	ND	0.33
Benzo(a)pyrene	1	1	0.59	ND	0.4	0.52	0.46	0.4	0.4	0.29	ND	0.4
Benzo(b)fluoranthene	1	1	0.51	ND	0.36	0.54	0.48	0.37	0.36	ND	ND	0.4
Benzo(ghi)perylene	8.4*	1*	0.44	ND	0.29	0.35	0.32	0.29	0.31	ND	ND	0.29
Benzo(k)fluoranthene	8.4	1	0.42	ND	0.3	0.44	0.35	0.31	0.37	ND	ND	0.3
Chrysene	84*	1*	0.44	ND	0.39	0.55	0.45	0.37	0.37	ND	ND	0.4
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	0.66	0.5	0.63	0.98	0.92	0.75	0.74	0.46	ND	0.7
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	0.44	ND	ND	0.35	0.32	0.28	0.29	ND	ND	0.3
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	ND	ND	0.27	0.42	0.46	0.42	0.39	ND	ND	0.4
Pyrene	1,000	4	0.62	0.44	0.6	0.91	0.82	0.65	0.66	0.45	ND	0.67
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	120	140	ND	ND	ND	ND	ND	ND
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	ND	ND	0.041	ND	0.0053	0.0056	ND	0.0028	0.0018	0.012
4,4' -DDE	1.8*	0.003*	0.014	0.022	0.31	0.0057	0.029	0.028	0.0037	0.011	0.005	0.27
4,4' -DDT	1.8*	0.003*	0.015	0.041	0.77	0.028	0.089	0.08	0.012	0.023	0.02	0.24
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	6.59	8.76	**13.2**	4.6	6.67	7.06	5.8	5.88	**11.7**	5.09
Barium	4,700	NE	156	80.5	55.1	79.2	66.7	60.5	80.4	85.9	90.6	93.9
Cadmium	34	NE	1.54	1.53	1.19	1.36	1.12	0.91	0.96	1.14	0.82	0.88
Chromium	100+	NE	25.3	32.6	17.8	23.9	21.9	20.9	22.1	28	28	19.3
Lead	400	NE	186	132	120	373	189	150	180	158	51.1	143
Mercury	20	NE	ND	0.06	ND	0.03	ND	ND	ND	0.03	ND	ND
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	0.007	NA	NA	NA	NA	NA	0.006	NA
SPLP Lead	NE	0.015	NA	NA	NA	0.081	NA	NA	NA	NA	NA	NA

NOTES:
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BOLD value indicates an exceedance of the RES DEC
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+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		TB20200420 LL 4/20/2020 Soil	TB20200420 HL 4/20/2020 Soil	TB20200421 LL 4/21/2020 Soil	TB20200421 HL 4/21/2020 Soil	TB20200422 LL 4/22/2020 Soil	TB20200422 HL 4/22/2020 Soil	TB20200424 LL 4/24/2020 Soil	TB20200424 HL 4/24/2020 Soil	FB20200421 4/21/2020 Water	EB20200420 4/20/2020 Water
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,000	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Benzo(b)fluoranthene	1	1	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Benzo(ghi)perylene	8.4*	1*	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Benzo(k)fluoranthene	8.4	1	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Chrysene	84*	1*	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Dibenz(a,h)anthracene	1*	1*	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Fluoranthene	1,000	5.6	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Fluorene	1,000	5.6	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Naphthalene			NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Phenanthrene	1,000	4	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Pyrene	1,000	4	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
4,4' -DDE	1.8*	0.003*	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
4,4' -DDT	1.8*	0.003*	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Barium	4,700	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Cadmium	34	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Chromium	100+	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Lead	400	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Mercury	20	NE	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
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ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each ND meets the specified criteria reporting unlimit unless otherwise noted by [ ], NA - Not analyzed, NE - No established remediation criteria for specific compound.
BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296 and 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		EB20200422 4/22/2020 Water	EB20200424 4/24/2020 Water
	RES DEC	GA PMC		
Miscellaneous/Inorganics				
Percent Solid			NA	NA
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg				
Naphthalene	1000	5.6	ND	ND
Toluene	500	20	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg				
Acenaphthylene	1,000	8.4	NA	NA
Anthracene	1,000	40	NA	NA
Benz(a)anthracene	1	1	ND	ND
Benzo(a)pyrene	1	1	ND	ND
Benzo(b)fluoranthene	1	1	ND	ND
Benzo(ghi)perylene	8.4*	1*	ND	ND
Benzo(k)fluoranthene	8.4	1	ND	ND
Chrysene	84*	1*	ND	ND
Dibenz(a,h)anthracene	1*	1*	ND	ND
Fluoranthene	1,000	5.6	ND	ND
Fluorene	1,000	5.6	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	ND
Naphthalene			ND	ND
Phenanthrene	1,000	4	ND	ND
Pyrene	1,000	4	ND	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND
Pesticides By SW8081B mg/Kg				
4,4' -DDD	1.8*	0.003*	ND	ND
4,4' -DDE	1.8*	0.003*	ND	ND
4,4' -DDT	1.8*	0.003*	ND	ND
Total RCRA 8 Metals mg/Kg				
Arsenic	10	NE	ND	ND
Barium	4,700	NE	ND	ND
Cadmium	34	NE	ND	ND
Chromium	100+	NE	ND	ND
Lead	400	NE	ND	ND
Mercury	20	NE	ND	ND
SPLP Metals mg/L				
SPLP Arsenic	NE	0.05	NA	NA
SPLP Lead	NE	0.015	NA	NA

NOTES:
CT RSRs - State of Connecticut Remediation Standard Regulations (CT RSRs) per RCSA 22a-133k-1 through 22a-133k-3, adopted January 1, 1996 and revised on June 27, 2013.
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BOLD value indicates an exceedance of the RES DEC
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* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
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Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-17 (0-2) 4/21/2020 Soil 276+00	SB-18 (0-2) 4/21/2020 Soil 264+00	SB-19 (0-2) 4/21/2020 Soil 256+00	SB-20 (0-2) 4/21/2020 Soil 237+00	SB-21 (0-2) 4/21/2020 Soil 232+50	SB-22 (0-2) 4/21/2020 Soil 225+00	SB-22B (0-2) 4/21/2020 Soil 225+00 Duplicate	SB-23 (0-2) 4/21/2020 Soil 215+00	SB-24 (0-2) 4/21/2020 Soil 207+00	SB-25 (0-2) 4/21/2020 Soil 201+00	SB-26 (0-2) 4/21/2020 Soil 186+50	SB-27 (0-2) 4/22/2020 Soil 178+00
	RES DEC	GA PMC												
Miscellaneous/Inorganics														
Percent Solid			88	89	82	88	81	90	92	84	86	88	91	89
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg														
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg														
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	0.69	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	ND	0.3	ND	ND	**2.4**	ND	ND	0.44	0.58	ND	ND	ND
Benzo(a)pyrene	1	1	ND	0.41	ND	ND	**2.7**	ND	ND	0.53	0.76	ND	ND	ND
Benzo(b)fluoranthene	1	1	ND	0.38	ND	ND	**2.1**	ND	ND	0.51	0.67	ND	ND	ND
Benzo(ghi)perylene	8.4*	1*	ND	0.34	ND	ND	1.8	ND	ND	0.43	0.65	ND	ND	ND
Benzo(k)fluoranthene	8.4	1	ND	0.27	ND	ND	2.1	ND	ND	0.43	0.58	ND	ND	ND
Chrysene	84*	1*	ND	0.35	ND	ND	2.3	ND	ND	0.53	0.71	ND	ND	ND
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	ND	0.49	0.37	0.31	5.5	ND	ND	1	1.3	ND	0.29	ND
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	0.34	ND	ND	**2**	ND	ND	0.46	0.64	ND	ND	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	ND	ND	ND	ND	1.9	ND	ND	0.48	0.49	ND	ND	ND
Pyrene	1,000	4	ND	0.49	0.35	0.29	4.8	ND	ND	0.96	1.2	ND	0.29	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	ND	73	220	ND	ND	ND	97	ND	ND	ND
Pesticides By SW8081B mg/Kg														
4,4' -DDD	1.8*	0.003*	0.0028	ND	ND	ND	0.007	ND	ND	0.0048	0.0025	ND	[0.022]	ND
4,4' -DDE	1.8*	0.003*	0.0024	ND	[0.018]	ND	0.0044	0.0055	0.0032	[0.021]	[0.011]	0.0018	[0.019]	ND
4,4' -DDT	1.8*	0.003*	0.005	ND	[0.023]	ND	[0.014]	[0.018]	[0.01]	[0.053]	[0.025]	0.0027	[0.012]	ND
Total RCRA 8 Metals mg/Kg														
Arsenic	10	NE	5.13	3.18	3.92	3.48	3.96	2.95	3.54	3.68	2.76	2.66	3.86	2.25
Barium	4,700	NE	40.8	52.9	49.1	47.4	83.8	47.1	49.1	51	61.8	47.9	57.1	36.6
Cadmium	34	NE	0.85	0.86	0.95	0.86	1.35	0.72	0.75	0.96	0.93	0.7	0.76	0.66
Chromium	100+	NE	32.8	29.8	22.1	21.3	31.6	15.1	29.2	20.2	20.3	15.9	14.5	15.4
Lead	400	NE	58.3	17.4	123	153	**918**	201	189	284	248	56.1	160	7.99
Mercury	20	NE	ND	ND	0.07	0.03	0.06	ND	ND	0.04	0.06	ND	0.05	ND
SPLP Metals mg/L														
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	NA	NA	0.216	0.165	NA	0.061	0.165	NA	0.137	0.032

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Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-28 (0-2) 4/22/2020 Soil 166+50	SB-29 (0-2) 4/22/2020 Soil 157+50	SB-30 (0-2) 4/22/2020 Soil 149+00	SB-31 (0-3) 4/22/2020 Soil 146+50	SB-32 (0-2) 4/22/2020 Soil 136+50	SB-33 (0-2) 4/22/2020 Soil 126+50	SB-34 (0-2) 4/22/2020 Soil 116+50	SB-35 (0-2) 4/22/2020 Soil 113+00	SB-36 (0-2) 4/22/2020 Soil 107+50	SB-37 (0-3) 4/22/2020 Soil 104+00	SB-38 (0-3) 4/22/2020 Soil 103+00	SB-39 (0-5) 4/22/2020 Soil 106+50
	RES DEC	GA PMC												
Miscellaneous/Inorganics														
Percent Solid			86	85	86	90	88	84	87	84	86	92	88	89
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg														
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0067
Toluene	500	20	ND	ND	0.0042	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg														
Acenaphthylene	1,000	8.4	0.3	ND	0.31	ND	ND	ND	0.32	0.39	ND	ND	ND	2.3
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	2
Benz(a)anthracene	1	1	0.58	ND	0.8	0.37	0.39	0.7	0.7	**1.2**	0.4	ND	ND	**6.4**
Benzo(a)pyrene	1	1	0.7	ND	0.88	0.47	0.49	0.82	0.85	**1.2**	0.49	ND	ND	**6.2**
Benzo(b)fluoranthene	1	1	0.64	ND	0.68	0.43	0.43	0.74	0.82	**1.1**	0.44	ND	ND	**4.9**
Benzo(ghi)perylene	8.4*	1*	0.52	ND	0.61	0.42	0.4	0.68	0.72	0.83	0.3	ND	ND	2.9
Benzo(k)fluoranthene	8.4	1	0.65	ND	0.92	0.37	0.37	0.6	0.57	0.87	0.45	ND	ND	4.2
Chrysene	84*	1*	0.74	ND	0.89	0.42	0.41	0.75	0.83	1.1	0.44	ND	ND	6
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.97
Fluoranthene	1,000	5.6	1	ND	1.4	0.81	0.8	1.6	1.5	2.4	0.75	ND	ND	16
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.94
Indeno(1,2,3-cd)pyrene	1*	1*	0.48	ND	0.55	0.4	0.4	0.69	0.71	0.89	0.33	ND	ND	**3.2**
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35
Phenanthrene	1,000	4	0.68	ND	1.1	0.35	0.31	0.75	0.63	1.1	0.3	ND	ND	7
Pyrene	1,000	4	0.94	ND	1.3	0.75	0.76	1.5	1.5	2.2	0.71	ND	ND	15
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	120	ND	61	64	56	62	93	ND	ND	ND	ND	56
Pesticides By SW8081B mg/Kg														
4,4' -DDD	1.8*	0.003*	0.0043	0.0017	0.0032	0.0034	0.0026	0.0044	0.0038	ND	ND	ND	ND	0.0025
4,4' -DDE	1.8*	0.003*	0.039	0.0078	0.013	0.033	0.011	0.071	0.063	0.0031	0.0039	ND	0.0065	0.055
4,4' -DDT	1.8*	0.003*	0.14	0.012	0.03	0.08	0.047	0.16	0.24	0.0094	0.009	ND	0.0021	0.064
Total RCRA 8 Metals mg/Kg														
Arsenic	10	NE	**11.2**	4.27	4.81	3.49	3.1	4.26	**17.2**	2.43	3.51	2.58	2.97	1.36
Barium	4,700	NE	66.3	67	57.4	46	62.9	67.5	46.3	64.9	93.3	56.5	73.5	108
Cadmium	34	NE	1.45	1.24	1.34	0.92	0.82	0.92	0.72	0.7	0.93	0.64	0.79	1.04
Chromium	100+	NE	25	24.9	23.8	17	30.9	23.8	60	24.8	25.4	17.3	27	43.8
Lead	400	NE	**432**	197	261	159	186	**595**	**518**	76.6	295	13	59.1	49.8
Mercury	20	NE	0.28	ND	0.03	ND	ND	0.05	ND	ND	ND	ND	0.003	ND
SPLP Metals mg/L														
SPLP Arsenic	NE	0.05	0.005	NA	NA	NA	NA	NA	0.043	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	0.085	0.033	0.048	NA	NA	0.297	1.61	NA	0.095	NA	NA	NA

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Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-39B (0-5) 4/22/2020 Soil 106+50 Duplicate	SB-40 (0-2) 4/22/2020 Soil 109+00	SB-41 (0-2) 4/22/2020 Soil 118+00	SB-42 (0-2.5) 4/22/2020 Soil 126+00	SB-43 (0-3) 4/22/2020 Soil 133+50	SB-44 (0-2) 4/22/2020 Soil 136+50	SB-45 (0-2) 4/22/2020 Soil 147+00	SB-46 (0-2) 4/23/2020 Soil 157+50	SB-47 (0-2.5) 4/23/2020 Soil 166+50	SB-48 (0-2) 4/23/2020 Soil 176+50	SB-49 (0-2) 4/23/2020 Soil 184+50	SB-50 (0-2) 4/23/2020 Soil 202+00
	RES DEC	GA PMC												
Miscellaneous/Inorganics														
Percent Solid			90	86	85	85	86	86	84	85	84	88	82	88
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg														
Naphthalene	1000	5.6	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg														
Acenaphthylene	1,000	8.4	0.82	ND	0.54	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	0.39	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	**1.8**	0.34	**1.2**	0.28	0.45	0.39	0.41	ND	ND	ND	0.52	0.37
Benzo(a)pyrene	1	1	**1.8**	0.47	**1.3**	0.33	0.51	0.44	0.5	ND	ND	ND	0.58	0.34
Benzo(b)fluoranthene	1	1	**1.4**	0.36	1	0.31	0.47	0.41	0.47	ND	ND	ND	0.54	0.28
Benzo(ghi)perylene	8.4*	1*	1.2	0.49	0.95	0.29	0.41	0.31	0.38	ND	ND	ND	0.41	ND
Benzo(k)fluoranthene	8.4	1	1.2	0.36	0.99	0.28	0.36	0.3	0.37	ND	ND	ND	0.42	ND
Chrysene	84*	1*	1.7	0.36	1.3	0.34	0.51	0.41	0.43	ND	ND	ND	0.57	0.35
Dibenz(a,h)anthracene	1*	1*	0.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	3.4	0.69	2.9	0.66	1	0.88	0.96	ND	ND	0.39	0.99	0.77
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	**1.2**	0.52	1	ND	0.42	0.36	0.42	ND	ND	ND	0.42	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	1.4	0.3	2.1	0.28	0.42	0.38	0.37	ND	ND	ND	0.48	0.55
Pyrene	1,000	4	3.4	0.62	2.9	0.65	0.93	0.78	0.88	ND	ND	0.39	0.93	0.7
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	90	ND	81	140	69	83	ND	380	60	ND	ND	ND
			3.4											
Pesticides By SW8081B mg/Kg														
4,4' -DDD	1.8*	0.003*	ND	0.0099	0.0043	0.0033	0.0029	ND	0.0049	ND	ND	0.024	0.0043	ND
4,4' -DDE	1.8*	0.003*	0.028	0.045	0.031	0.034	0.0069	0.0033	0.081	0.0072	0.004	0.19	0.032	ND
4,4' -DDT	1.8*	0.003*	0.044	0.13	0.15	0.11	0.052	0.01	0.17	0.018	0.016	0.44	0.057	ND
Total RCRA 8 Metals mg/Kg														
Arsenic	10	NE	1.3	3.06	3.88	3.96	2.86	3.97	4.35	3.82	4.65	6.85	7.41	2.21
Barium	4,700	NE	120	86.5	77.2	47.3	54.6	48.7	71.1	55.6	57.9	52.7	51.2	46.1
Cadmium	34	NE	1.5	0.88	0.9	0.76	0.9	1.13	1.11	0.95	1	1.07	1.19	0.58
Chromium	100+	NE	46.7	43.3	23.9	22.9	25.8	19.5	20.8	24.2	26.3	21.1	28.6	18.9
Lead	400	NE	52.5	121	307	201	249	155	208	344	26.7	**613**	165	21.4
Mercury	20	NE	ND	0.05	0.12	0.04	0.04	ND	0.1	ND	ND	0.04	0.05	ND
SPLP Metals mg/L														
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	0.181	NA	NA	NA	0.031	0.184	NA	0.057	NA	NA

NOTES:
CT RSRs - State of Connecticut Remediation Standard Regulations (CT RSRs) per RCSA 22a-133k-1 through 22a-133k-3, adopted January 1, 1996 and revised on June 27, 2013.
RES DEC - Residential Direct Exposure Criteria, GA PMC - GA Pollutant Mobility Criteria,
ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each
BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-51 (0-2) 4/23/2020 Soil 207+00	SB-52 (0-2) 4/23/2020 Soil 216+50	SB-52B (0-2) 4/23/2020 Soil 216+50 Duplicate	SB-53 (0-2) 4/23/2020 Soil 226+50	SB-54 (0-2) 4/23/2020 Soil 239+00	SB-55 (0-2) 4/23/2020 Soil 246+00	SB-56 (0-2) 4/23/2020 Soil 254+50	SB-57 (0-2) 4/23/2020 Soil 265+50	SB-58 (0-2) 4/23/2020 Soil 277+00	SB-59 (0-2.5) 4/23/2020 Soil 279+00	TB20200421 LL 4/21/2020 Soil	TB20200421 HL 4/21/2020 Soil
	RES DEC	GA PMC												
Miscellaneous/Inorganics														
Percent Solid			86	92	89	86	85	88	91	91	88	88	NA	NA
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg														
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg														
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Benz(a)anthracene	1	1	ND	ND	ND	0.3	0.4	0.8	ND	0.28	0.35	ND	NA	NA
Benzo(a)pyrene	1	1	ND	ND	ND	0.34	0.46	0.94	ND	0.31	0.41	ND	NA	NA
Benzo(b)fluoranthene	1	1	ND	ND	ND	0.31	0.39	0.89	ND	0.28	0.38	ND	NA	NA
Benzo(ghi)perylene	8.4*	1*	ND	ND	ND	0.31	0.34	0.61	ND	ND	0.29	ND	NA	NA
Benzo(k)fluoranthene	8.4	1	ND	ND	ND	0.29	0.4	0.65	ND	ND	0.33	ND	NA	NA
Chrysene	84*	1*	ND	ND	ND	0.35	0.4	0.78	ND	0.33	0.35	ND	NA	NA
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Fluoranthene	1,000	5.6	ND	ND	0.35	0.68	0.9	1.6	ND	0.65	0.52	0.36	NA	NA
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Indeno(1,2,3-cd)pyrene	1*	1*	ND	ND	ND	0.3	0.34	0.66	ND	ND	0.32	ND	NA	NA
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Phenanthrene	1,000	4	ND	ND	ND	0.3	0.47	0.48	ND	0.44	ND	ND	NA	NA
Pyrene	1,000	4	ND	ND	0.32	0.61	0.81	1.5	ND	0.57	0.54	0.33	NA	NA
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	ND	120	ND	170	86	ND	ND	ND	NA	NA
Pesticides By SW8081B mg/Kg														
4,4' -DDD	1.8*	0.003*	0.0073	0.0038	0.0026	ND	ND	ND	ND	ND	ND	ND	NA	NA
4,4' -DDE	1.8*	0.003*	0.0046	0.0072	0.0044	0.0053	0.024	0.0022	ND	ND	0.0057	0.016	NA	NA
4,4' -DDT	1.8*	0.003*	0.0053	0.023	0.013	0.023	0.04	0.0025	ND	ND	0.016	0.063	NA	NA
Total RCRA 8 Metals mg/Kg														
Arsenic	10	NE	2.92	2.09	2.91	4.78	3.48	3.31	5.34	4.4	3.66	1.93	NA	NA
Barium	4,700	NE	41.7	42.4	40.4	56.5	52.9	51.4	59.9	57.2	65.2	59.4	NA	NA
Cadmium	34	NE	0.76	0.56	0.78	1.06	0.73	0.63	0.81	0.7	0.87	0.68	NA	NA
Chromium	100+	NE	17.3	10.5	13.4	28.3	15.9	15.2	28	47.6	26.7	41.7	NA	NA
Lead	400	NE	58.1	80.7	137	223	118	30.9	67.6	154	151	149	NA	NA
Mercury	20	NE	0.04	ND	ND	0.05	0.04	0.05	ND	ND	0.03	ND	NA	NA
SPLP Metals mg/L														
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	NA	0.422	NA	NA	NA	NA	NA	NA	NA	NA

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ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each
BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-296

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		TB20200422 LL 4/22/2020 Soil	TB20200422 HL 4/22/2020 Soil	TB20200424 HL 4/24/2020 Soil	FB20200421 4/21/2020 Water	EB20200422 4/22/2020 Water
	RES DEC	GA PMC					
Miscellaneous/Inorganics							
Percent Solid			NA	NA	NA	NA	NA
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg							
Naphthalene	1000	5.6	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg							
Acenaphthylene	1,000	8.4	NA	NA	NA	NA	NA
Anthracene	1,000	40	NA	NA	NA	NA	NA
Benz(a)anthracene	1	1	NA	NA	NA	ND	ND
Benzo(a)pyrene	1	1	NA	NA	NA	ND	ND
Benzo(b)fluoranthene	1	1	NA	NA	NA	ND	ND
Benzo(ghi)perylene	8.4*	1*	NA	NA	NA	ND	ND
Benzo(k)fluoranthene	8.4	1	NA	NA	NA	ND	ND
Chrysene	84*	1*	NA	NA	NA	ND	ND
Dibenz(a,h)anthracene	1*	1*	NA	NA	NA	ND	ND
Fluoranthene	1,000	5.6	NA	NA	NA	ND	ND
Fluorene	1,000	5.6	NA	NA	NA	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	NA	NA	NA	ND	ND
Naphthalene			NA	NA	NA	ND	ND
Phenanthrene	1,000	4	NA	NA	NA	ND	ND
Pyrene	1,000	4	NA	NA	NA	ND	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	NA	NA	NA	ND	ND
Pesticides By SW8081B mg/Kg							
4,4' -DDD	1.8*	0.003*	NA	NA	NA	ND	ND
4,4' -DDE	1.8*	0.003*	NA	NA	NA	ND	ND
4,4' -DDT	1.8*	0.003*	NA	NA	NA	ND	ND
Total RCRA 8 Metals mg/Kg							
Arsenic	10	NE	NA	NA	NA	ND	ND
Barium	4,700	NE	NA	NA	NA	ND	ND
Cadmium	34	NE	NA	NA	NA	ND	ND
Chromium	100+	NE	NA	NA	NA	ND	ND
Lead	400	NE	NA	NA	NA	ND	ND
Mercury	20	NE	NA	NA	NA	ND	ND
SPLP Metals mg/L							
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	NA	NA	NA

NOTES:
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RES DEC - Residential Direct Exposure Criteria, GA PMC - GA Pollutant Mobility Criteria,
ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each
BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-01 (0-2) 4/20/2020 Soil 421+50	SB-02 (0-2.5) 4/20/2020 Soil 410+50	SB-03 (0-2) 4/20/2020 Soil 398+50	SB-04 (0-2.5) 4/20/2020 Soil 396+00	SB-05 (0-2) 4/20/2020 Soil 384+50	SB-06 (0-2) 4/20/2020 Soil 374+50	SB-07 (0-2) 4/20/2020 Soil 365+00	SB-08 (0-3) 4/20/2020 Soil 355+00	SB-09 (0-2.5) 4/20/2020 Soil 345+00	SB-10 (0-3) 4/20/2020 Soil 340+00	SB-11 (0-2) 4/20/2020 Soil 335+00
	RES DEC	GA PMC											
Miscellaneous/Inorganics													
Percent Solid			87	87	88	86	80	83	83	84	89	88	85
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg													
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg													
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	0.32	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	0.45	ND	ND	0.49	0.53	0.3	0.36	0.49	0.33	ND	ND
Benzo(a)pyrene	1	1	0.52	0.27	ND	0.55	0.6	0.34	0.43	0.52	0.36	ND	ND
Benzo(b)fluoranthene	1	1	0.5	0.26	ND	0.52	0.56	0.35	0.44	0.53	0.33	ND	ND
Benzo(ghi)perylene	8.4*	1*	0.4	ND	ND	0.38	0.46	ND	0.29	0.37	0.27	ND	ND
Benzo(k)fluoranthene	8.4	1	0.42	ND	ND	0.42	0.44	0.31	0.39	0.5	0.32	ND	ND
Chrysene	84*	1*	0.5	0.29	ND	0.53	0.59	0.36	0.43	0.56	0.38	ND	ND
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	1	0.52	0.41	1.1	1.1	0.67	0.65	1	0.56	0.3	ND
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	0.4	ND	ND	0.39	0.47	0.3	0.3	0.39	0.26	ND	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	0.4	ND	ND	0.6	0.53	0.31	0.28	0.51	0.38	ND	ND
Pyrene	1,000	4	0.9	0.48	0.38	1	1.1	0.62	0.63	0.94	0.49	0.27	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	ND	ND	150	130	ND	120	ND	ND	ND
Pesticides By SW8081B mg/Kg													
4,4' -DDD	1.8*	0.003*	ND	0.018	0.017	0.0078	ND	ND	ND	ND	0.0058	0.0046	0.002
4,4' -DDE	1.8*	0.003*	ND	0.22	0.12	0.046	0.027	0.036	0.053	0.047	0.045	0.041	0.0095
4,4' -DDT	1.8*	0.003*	0.024	0.35	0.21	0.09	0.06	0.078	0.062	0.1	0.079	0.14	0.029
Total RCRA 8 Metals mg/Kg													
Arsenic	10	NE	4.46	9.03	5.23	4.59	4.5	6	6.69	**38.5**	5.09	6.28	5.72
Barium	4,700	NE	64.3	57.7	93.1	79.1	304	63.5	59.3	75.7	77.5	71	83.2
Cadmium	34	NE	1	0.86	1.16	1.22	1.85	1.11	1.19	1.5	1.36	1.23	1.28
Chromium	100+	NE	18	17.4	26.9	25.5	31.4	21.8	26.1	25.9	22.7	22	23.5
Lead	400	NE	179	228	238	292	**410**	283	235	**431**	**520**	393	257
Mercury	20	NE	ND	0.05	0.04	0.05	0.1	ND	ND	0.1	ND	0.05	0.04
SPLP Metals mg/L													
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	0.037	0.074	0.071	0.066	0.067	0.196	0.124	0.09	0.063	0.039

NOTES:
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RES DEC - Residential Direct Exposure Criteria, GA PMC - GA Pollutant Mobility Criteria,
ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each ND meets the specified criteria reporting unlimit unless otherwise noted by [ ], NA - Not analyzed, NE - No established remediation criteria for specific compound.
BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-11B (0-2) 4/20/2020 Soil 335+00 Duplicate	SB-12 (0-2) 4/20/2020 Soil 323+50	SB-13 (0-2) 4/20/2020 Soil 315+00	SB-14 (0-2) 4/20/2020 Soil 306+00	SB-15 (0-2) 4/20/2020 Soil 297+00	SB-16 (0-2) 4/21/2020 Soil 286+50	SB-60 (0-2) 4/23/2020 Soil 286+00	SB-61 (0-2) 4/24/2020 Soil 297+00	SB-62 (0-2) 4/24/2020 Soil 306+00	SB-63 (0-2) 4/24/2020 Soil 315+50	SB-64 (0-2) 4/24/2020 Soil 319+00
	RES DEC	GA PMC											
Miscellaneous/Inorganics													
Percent Solid			85	89	83	85	86	87	86	90	93	86	83
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg													
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg													
Acenaphthylene	1,000	8.4	ND	ND	ND	0.3	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	ND	ND	0.38	0.48	ND	ND	ND	0.55	ND	ND	0.32
Benzo(a)pyrene	1	1	ND	ND	0.46	0.59	0.29	ND	ND	0.72	ND	ND	0.38
Benzo(b)fluoranthene	1	1	ND	ND	0.39	0.57	0.37	ND	ND	0.63	ND	ND	0.36
Benzo(ghi)perylene	8.4*	1*	ND	ND	0.34	0.4	ND	ND	ND	0.63	ND	ND	0.3
Benzo(k)fluoranthene	8.4	1	ND	ND	0.41	0.56	0.28	ND	ND	0.67	ND	ND	0.3
Chrysene	84*	1*	ND	ND	0.48	0.55	0.32	ND	ND	0.65	ND	ND	0.39
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	0.29	ND	0.57	0.73	0.32	ND	ND	1.1	ND	0.34	0.66
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	ND	0.35	0.41	ND	ND	ND	0.61	ND	ND	0.29
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	ND	ND	0.31	0.44	ND	ND	ND	0.51	ND	ND	0.3
Pyrene	1,000	4	0.3	ND	0.52	0.66	0.31	ND	ND	1	ND	0.3	0.59
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	110	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides By SW8081B mg/Kg													
4,4' -DDD	1.8*	0.003*	ND	ND	0.0044	0.0036	ND	0.002	ND	0.025	ND	ND	0.0028
4,4' -DDE	1.8*	0.003*	0.01	0.0055	0.0097	0.0073	0.002	[0.017]	ND	0.12	ND	0.0037	0.014
4,4' -DDT	1.8*	0.003*	0.032	0.013	0.022	0.017	0.0028	[0.012]	ND	0.37	0.0034	0.0071	0.032
Total RCRA 8 Metals mg/Kg													
Arsenic	10	NE	6.19	5.65	4.73	3.94	6.51	3.43	4.9	4.74	2.3	6.49	5.14
Barium	4,700	NE	80	61.1	78	48.9	63.7	61.1	58.8	59.8	50.7	52.7	57.6
Cadmium	34	NE	1.34	1.03	1.43	1.12	1.19	0.73	0.71	0.94	0.66	0.93	1.15
Chromium	100+	NE	24.5	21.4	25.8	22.7	22.3	32.9	18.8	31.1	21.4	20.5	22.1
Lead	400	NE	231	99.5	**402**	349	210	69.6	64.2	**952**	209	189	341
Mercury	20	NE	ND	0.04	0.05	ND	ND	0.04	ND	ND	ND	ND	ND
SPLP Metals mg/L													
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	0.039	0.585	0.234	NA	NA	0.655	0.059	NA	0.206

NOTES:
CT RSRs - State of Connecticut Remediation Standard Regulations (CT RSRs) per RCSA 22a-133k-1 through 22a-133k-3, adopted January 1, 1996 and revised on June 27, 2013.
RES DEC - Residential Direct Exposure Criteria, GA PMC - GA Pollutant Mobility Criteria,
ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each ND meets the specified criteria reporting unlimit unless otherwise noted by [ ], NA - Not analyzed, NE - No established remediation criteria for specific compound.
BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-65 (0-2) 4/24/2020 Soil 335+00	SB-66 (0-2) 4/24/2020 Soil 345+50	SB-67 (0-2) 4/24/2020 Soil 355+00	SB-68 (0-2) 4/24/2020 Soil 365+00	SB-69 (0-2.5) 4/24/2020 Soil 375+00	SB-70 (0-2.5) 4/24/2020 Soil 384+50	SB-71 (0-2.5) 4/24/2020 Soil 392+00	SB-71B (0-2.5) 4/24/2020 Soil 392+00 Duplicate	SB-72 (0-2) 4/24/2020 Soil 395+00	SB-73 (0-4) 4/24/2020 Soil 404+50	SB-74 (0-3) 4/24/2020 Soil 415+00
	RES DEC	GA PMC											
Miscellaneous/Inorganics													
Percent Solid			82	88	83	71	86	84	90	87	88	84	94
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg													
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg													
Acenaphthylene	1,000	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1,000	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	1	1	0.3	ND	0.38	ND	0.32	0.47	0.4	0.33	0.32	ND	ND
Benzo(a)pyrene	1	1	0.39	0.32	0.59	ND	0.4	0.52	0.46	0.4	0.4	0.29	ND
Benzo(b)fluoranthene	1	1	0.36	0.34	0.51	ND	0.36	0.54	0.48	0.37	0.36	ND	ND
Benzo(ghi)perylene	8.4*	1*	0.29	ND	0.44	ND	0.29	0.35	0.32	0.29	0.31	ND	ND
Benzo(k)fluoranthene	8.4	1	0.33	ND	0.42	ND	0.3	0.44	0.35	0.31	0.37	ND	ND
Chrysene	84*	1*	0.38	0.31	0.44	ND	0.39	0.55	0.45	0.37	0.37	ND	ND
Dibenz(a,h)anthracene	1*	1*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	1,000	5.6	0.64	0.48	0.66	0.5	0.63	0.98	0.92	0.75	0.74	0.46	ND
Fluorene	1,000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	ND	ND	ND	0.44	ND	ND	0.35	0.32	0.28	0.29	ND	ND
Naphthalene			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	1,000	4	ND	ND	ND	ND	0.27	0.42	0.46	0.42	0.39	ND	ND
Pyrene	1,000	4	0.57	0.45	0.62	0.44	0.6	0.91	0.82	0.65	0.66	0.45	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	ND	ND	ND	120	140	ND	ND	ND	ND	ND
Pesticides By SW8081B mg/Kg													
4,4' -DDD	1.8*	0.003*	0.0061	0.0023	ND	ND	0.041	ND	0.0053	0.0056	ND	0.0028	0.0018
4,4' -DDE	1.8*	0.003*	0.011	0.014	0.014	0.022	0.31	0.0057	0.029	0.028	0.0037	0.011	0.005
4,4' -DDT	1.8*	0.003*	0.044	0.038	0.015	0.041	0.77	0.028	0.089	0.08	0.012	0.023	0.02
Total RCRA 8 Metals mg/Kg													
Arsenic	10	NE	5.4	4.22	6.59	8.76	**13.2**	4.6	6.67	7.06	5.8	5.88	**11.7**
Barium	4,700	NE	68.7	66.9	156	80.5	55.1	79.2	66.7	60.5	80.4	85.9	90.6
Cadmium	34	NE	1.14	1.06	1.54	1.53	1.19	1.36	1.12	0.91	0.96	1.14	0.82
Chromium	100+	NE	27.1	25.9	25.3	32.6	17.8	23.9	21.9	20.9	22.1	28	28
Lead	400	NE	301	244	186	132	120	373	189	150	180	158	51.1
Mercury	20	NE	0.05	0.05	ND	0.06	ND	0.03	ND	ND	ND	0.03	ND
SPLP Metals mg/L													
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	0.007	NA	NA	NA	NA	NA	0.006
SPLP Lead	NE	0.015	0.375	0.244	NA	NA	NA	0.081	NA	NA	NA	NA	NA

NOTES:
CT RSRs - State of Connecticut Remediation Standard Regulations (CT RSRs) per RCSA 22a-133k-1 through 22a-133k-3, adopted January 1, 1996 and revised on June 27, 2013.
RES DEC - Residential Direct Exposure Criteria, GA PMC - GA Pollutant Mobility Criteria,
ftbg - feet below grade, ND - Not detected above laboratory detection limits. Each ND meets the specified criteria reporting unlimit unless otherwise noted by [ ], NA - Not analyzed, NE - No established remediation criteria for specific compound.
BOLD value indicates an exceedance of the RES DEC
Shaded value indicates an exceedance of the GA Pollutant Mobility Criteria (GA PMC)
* - There is currently no promulgated RSR criterion for this compound. As such, the readily approvable Additional Polluting Substances (APS) criterion is provided as a reference.
+ - Currently, no RES DEC for total chromium is established in the CT RSRs. However, the CT RSRs provide an RES DEC value for both hexavalent and trivalent chromium, of which the value for hexavalent chromium (the more stringent of the two) is presented on this table for comparison.

Table 2
Soil Sample Analytical Results
Task 210 Subsurface Investigation
Merritt Parkway, New Canaan-Norwalk-Westport, CT
TRC Project No. 237612.005715.000210
ConnDOT Project No. 102-368

TRC ID Sample ID Sample Interval (ftbg): Sample Date Matrix Station Number Note:	CT RSRs		SB-75 (0-2) 4/24/2020 Soil 420+50	TB20200420 LL 4/20/2020 Soil	TB20200420 HL 4/20/2020 Soil	TB20200421 LL 4/21/2020 Soil	TB20200421 HL 4/21/2020 Soil	TB20200424 LL 4/24/2020 Soil	TB20200424 HL 4/24/2020 Soil	FB20200421 4/21/2020 Water	EB20200420 4/20/2020 Water	EB20200424 4/24/2020 Water
	RES DEC	GA PMC										
Miscellaneous/Inorganics												
Percent Solid			82	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (VOCs) By SW8260C mg/Kg												
Naphthalene	1000	5.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	500	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polynuclear Aromatic Hydrocarbons (PAHs) By SW8270D mg/Kg												
Acenaphthylene	1,000	8.4	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,000	40	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benz(a)anthracene	1	1	0.33	NA	NA	NA	NA	NA	NA	ND	ND	ND
Benzo(a)pyrene	1	1	0.4	NA	NA	NA	NA	NA	NA	ND	ND	ND
Benzo(b)fluoranthene	1	1	0.4	NA	NA	NA	NA	NA	NA	ND	ND	ND
Benzo(ghi)perylene	8.4*	1*	0.29	NA	NA	NA	NA	NA	NA	ND	ND	ND
Benzo(k)fluoranthene	8.4	1	0.3	NA	NA	NA	NA	NA	NA	ND	ND	ND
Chrysene	84*	1*	0.4	NA	NA	NA	NA	NA	NA	ND	ND	ND
Dibenz(a,h)anthracene	1*	1*	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
Fluoranthene	1,000	5.6	0.7	NA	NA	NA	NA	NA	NA	ND	ND	ND
Fluorene	1,000	5.6	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
Indeno(1,2,3-cd)pyrene	1*	1*	0.3	NA	NA	NA	NA	NA	NA	ND	ND	ND
Naphthalene			ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
Phenanthrene	1,000	4	0.4	NA	NA	NA	NA	NA	NA	ND	ND	ND
Pyrene	1,000	4	0.67	NA	NA	NA	NA	NA	NA	ND	ND	ND
Extractable Total Petroleum Hydrocarbons (ETPH) By CTETPH 8015D mg/Kg	500	500	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
Pesticides By SW8081B mg/Kg												
4,4' -DDD	1.8*	0.003*	0.012	NA	NA	NA	NA	NA	NA	ND	ND	ND
4,4' -DDE	1.8*	0.003*	0.27	NA	NA	NA	NA	NA	NA	ND	ND	ND
4,4' -DDT	1.8*	0.003*	0.24	NA	NA	NA	NA	NA	NA	ND	ND	ND
Total RCRA 8 Metals mg/Kg												
Arsenic	10	NE	5.09	NA	NA	NA	NA	NA	NA	ND	ND	ND
Barium	4,700	NE	93.9	NA	NA	NA	NA	NA	NA	ND	ND	ND
Cadmium	34	NE	0.88	NA	NA	NA	NA	NA	NA	ND	ND	ND
Chromium	100+	NE	19.3	NA	NA	NA	NA	NA	NA	ND	ND	ND
Lead	400	NE	143	NA	NA	NA	NA	NA	NA	ND	ND	ND
Mercury	20	NE	ND	NA	NA	NA	NA	NA	NA	ND	ND	ND
SPLP Metals mg/L												
SPLP Arsenic	NE	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead	NE	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:
CT RSRs - State of Connecticut Remediation Standard Regulations (CT RSRs) per RCSA 22a-133k-1 through 22a-133k-3, adopted January 1, 1996 and revised on June 27, 2013.
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APPENDIX A

LABORATORY ANALYTICAL REPORTS

PHOENIX
Environmental Laboratories, Inc.

Monday, May 04, 2020

Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: **RT 15 MERRITT PARKWAY**
SDG ID: **GCF75982**
Sample ID#s: CF75982 - CF75991, CF75993

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

May 04, 2020

SDG I.D.: GCF75982

Version 2: Per client request SPLP Lead was added on.

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

Sample Id Cross Reference

May 04, 2020

SDG I.D.: GCF75982

Project ID: RT 15 MERRITT PARKWAY

Client Id	Lab Id	Matrix
TB20200420 LL	CF75982	SOIL
EB20200420	CF75983	WATER
SB-01	CF75984	SOIL
SB-02	CF75985	SOIL
SB-03	CF75986	SOIL
SB-04	CF75987	SOIL
SB-05	CF75988	SOIL
SB-06	CF75989	SOIL
SB-07	CF75990	SOIL
SB-08	CF75991	SOIL
TB20200420 HL	CF75993	SOIL

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	14:00
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75982

Project ID: RT 15 MERRITT PARKWAY
Client ID: TB20200420 LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: TB20200420 LL

Phoenix I.D.: CF75982

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	0.25	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	04/21/20	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	04/21/20	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102		%	1	04/21/20	JLI	70 - 130 %
Field Extraction	Completed				04/20/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/20/20	14:10
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75983

Project ID: RT 15 MERRITT PARKWAY
Client ID: EB20200420

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.001	0.001	mg/L	1	04/21/20	EK	SW6010D/E200.7	
Arsenic	< 0.004	0.004	mg/L	1	04/21/20	EK	SW6010D/E200.7	
Barium	< 0.002	0.002	mg/L	1	04/21/20	EK	SW6010D/E200.7	
Cadmium	< 0.001	0.001	mg/L	1	04/21/20	EK	SW6010D/E200.7	
Chromium	< 0.001	0.001	mg/L	1	04/21/20	EK	SW6010D/E200.7	B
Mercury	< 0.0002	0.0002	mg/L	1	04/21/20	RS	SW7470/E245.1	
Lead	< 0.002	0.002	mg/L	1	04/21/20	EK	SW6010D/E200.7	
Selenium	< 0.010	0.010	mg/L	1	04/21/20	EK	SW6010D/E200.7	
Extraction of CT ETPH	Completed				04/21/20	P/AK	SW3510C/SW3520C	
Mercury Digestion	Completed				04/21/20	LS/RA/LS	SW7470/245.1	
Extraction for Pest (LDL)	Completed				04/20/20	AT/AT	SW3510C	
Semi-Volatile Extraction	Completed				04/20/20	P/AK/SB	SW3520C	
Total Metals Digestion	Completed				04/20/20	AG		
TPH by GC (Extractable Products)								
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	04/22/20	JRB	CTETPH 8015D	
Identification	ND		mg/L	1	04/22/20	JRB	CTETPH 8015D	
QA/QC Surrogates								
% n-Pentacosane	57		%	1	04/22/20	JRB	50 - 150 %	
Pesticides								
4,4' -DDD	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
4,4' -DDE	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
4,4' -DDT	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
a-BHC	ND	0.024	ug/L	1	04/22/20	CG	SW8081B	
Alachlor	ND	0.071	ug/L	1	04/22/20	CG	SW8081B	
Aldrin	ND	0.030	ug/L	1	04/22/20	CG	SW8081B	
b-BHC	ND	0.005	ug/L	1	04/22/20	CG	SW8081B	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Chlordane	ND	0.28	ug/L	1	04/22/20	CG	SW8081B	
d-BHC	ND	0.024	ug/L	1	04/22/20	CG	SW8081B	
Dieldrin	ND	0.001	ug/L	1	04/22/20	CG	SW8081B	
Endosulfan I	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
Endosulfan II	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
Endosulfan Sulfate	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
Endrin	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
Endrin Aldehyde	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
Endrin ketone	ND	0.047	ug/L	1	04/22/20	CG	SW8081B	
g-BHC (Lindane)	ND	0.024	ug/L	1	04/22/20	CG	SW8081B	
Heptachlor	ND	0.024	ug/L	1	04/22/20	CG	SW8081B	
Heptachlor epoxide	ND	0.024	ug/L	1	04/22/20	CG	SW8081B	
Methoxychlor	ND	0.094	ug/L	1	04/22/20	CG	SW8081B	
Toxaphene	ND	0.94	ug/L	1	04/22/20	CG	SW8081B	
QA/QC Surrogates								
%DCBP (Surrogate Rec)	31		%	1	04/22/20	CG	30 - 150 %	
%DCBP (Surrogate Rec) (Confirmation)	20		%	1	04/22/20	CG	30 - 150 %	3
%TCMX (Surrogate Rec)	77		%	1	04/22/20	CG	30 - 150 %	
%TCMX (Surrogate Rec) (Confirmation)	78		%	1	04/22/20	CG	30 - 150 %	

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.49	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Acenaphthene	ND	0.49	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Acenaphthylene	ND	0.29	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Anthracene	ND	0.49	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Benz(a)anthracene	ND	0.05	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.20	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.07	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.47	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.29	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Chrysene	ND	0.49	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Fluoranthene	ND	0.49	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Fluorene	ND	0.49	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Naphthalene	ND	0.49	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Phenanthrene	ND	0.06	ug/L	1	04/21/20	WB	SW8270D (SIM)	
Pyrene	ND	0.49	ug/L	1	04/21/20	WB	SW8270D (SIM)	
QA/QC Surrogates								
% 2-Fluorobiphenyl	39		%	1	04/21/20	WB	30 - 130 %	
% Nitrobenzene-d5	37		%	1	04/21/20	WB	30 - 130 %	
% Terphenyl-d14	56		%	1	04/21/20	WB	30 - 130 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.
B = Present in blank, no bias suspected.

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

Comments:

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

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	14:15
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75984

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Arsenic	4.46	0.73	mg/Kg	1	04/21/20	CPP	SW6010D
Barium	64.3	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Cadmium	1.00	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Chromium	18.0	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/21/20	RS	SW7471B
Lead	179	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/21/20	CPP	SW6010D
Percent Solid	87		%		04/20/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/20/20	RB/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/20/20	RR/EE	SW3545A
Extraction of CT ETPH	Completed				04/20/20	GG/ML	SW3545A
Mercury Digestion	Completed				04/21/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/20/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDE	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDT	0.024	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
a-BHC	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Aldrin	ND	0.0038	mg/Kg	2	04/22/20	CG	SW8081B

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-01

Phoenix I.D.: CF75984

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/22/20	CG	SW8081B
d-BHC	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/22/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/22/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/22/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	62		%	2	04/22/20	CG	30 - 150 %
% DCBP (Confirmation)	61		%	2	04/22/20	CG	30 - 150 %
% TCMX	54		%	2	04/22/20	CG	30 - 150 %
% TCMX (Confirmation)	54		%	2	04/22/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/21/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-01

Phoenix I.D.: CF75984

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.0026	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.026	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0087	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.0087	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0087	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0087	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0087	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.0044	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	04/21/20	JLI	70 - 130 %
% Dibromofluoromethane	110		%	1	04/21/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	04/21/20	JLI	70 - 130 %

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-01

Phoenix I.D.: CF75984

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	0.45	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	0.52	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	0.5	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	0.4	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	0.42	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	0.5	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	1	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.4	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	0.4	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	0.9	0.26	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	52		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	45		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	77		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	14:30
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75985

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/21/20	CPP	SW6010D
Arsenic	9.03	0.81	mg/Kg	1	04/21/20	CPP	SW6010D
Barium	57.7	0.40	mg/Kg	1	04/21/20	CPP	SW6010D
Cadmium	0.86	0.40	mg/Kg	1	04/21/20	CPP	SW6010D
Chromium	17.4	0.40	mg/Kg	1	04/21/20	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/21/20	RS	SW7471B
Lead	228	0.40	mg/Kg	1	04/21/20	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/21/20	CPP	SW6010D
SPLP Lead	0.037	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	87		%		04/20/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/20/20	RB/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/20/20	RR/EE	SW3545A
Extraction of CT ETPH	Completed				04/20/20	GG/ML	SW3545A
Mercury Digestion	Completed				04/21/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/20/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/21/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/21/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/21/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.018	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.22	0.038	mg/Kg	10	04/22/20	CG	SW8081B
4,4' -DDT	0.35	0.075	mg/Kg	20	04/23/20	CG	SW8081B

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-02

Phoenix I.D.: CF75985

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0038	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	77		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	57		%	2	04/23/20	CG	30 - 150 %
% TCMX	59		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	58		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-02

Phoenix I.D.: CF75985

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/21/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0074	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.0074	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0074	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0074	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0074	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	04/21/20	JLI	70 - 130 %

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-02

Phoenix I.D.: CF75985

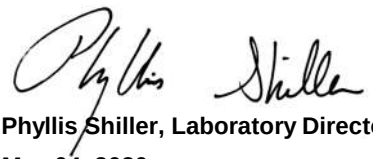
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	109		%	1	04/21/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	04/21/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	0.27	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	0.26	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	0.29	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	0.52	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	0.48	0.26	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	52		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	42		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	75		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	14:45
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75986

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Arsenic	5.23	0.71	mg/Kg	1	04/21/20	CPP	SW6010D
Barium	93.1	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Cadmium	1.16	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Chromium	26.9	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/21/20	RS	SW7471B
Lead	238	0.36	mg/Kg	1	04/21/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/21/20	CPP	SW6010D
SPLP Lead	0.074	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	88		%		04/20/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/20/20	RB/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/20/20	RR/EE	SW3545A
Extraction of CT ETPH	Completed				04/20/20	GG/ML	SW3545A
Mercury Digestion	Completed				04/21/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/20/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/21/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/21/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	04/21/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.017	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.12	0.037	mg/Kg	10	04/22/20	CG	SW8081B
4,4' -DDT	0.21	0.037	mg/Kg	10	04/22/20	CG	SW8081B

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-03

Phoenix I.D.: CF75986

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	68		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	52		%	2	04/23/20	CG	30 - 150 %
% TCMX	59		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	57		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0019	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.016	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-03

Phoenix I.D.: CF75986

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.016	mg/Kg	1	04/21/20	JLI	SW8260C
Acetone	ND	0.16	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.0019	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.019	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0064	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.0064	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0064	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0064	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0064	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.0032	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	04/21/20	JLI	70 - 130 %

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-03

Phoenix I.D.: CF75986

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	111		%	1	04/21/20	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/21/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	0.41	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	0.38	0.26	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	54		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	43		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	73		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	15:00
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75987

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/21/20	CPP	SW6010D
Arsenic	4.59	0.76	mg/Kg	1	04/21/20	CPP	SW6010D
Barium	79.1	0.38	mg/Kg	1	04/21/20	CPP	SW6010D
Cadmium	1.22	0.38	mg/Kg	1	04/21/20	CPP	SW6010D
Chromium	25.5	0.38	mg/Kg	1	04/21/20	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/21/20	RS	SW7471B
Lead	292	0.38	mg/Kg	1	04/21/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/21/20	CPP	SW6010D
SPLP Lead	0.071	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	86		%		04/20/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/20/20	RB/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/20/20	RR/EE	SW3545A
Extraction of CT ETPH	Completed				04/20/20	GG/ML	SW3545A
Mercury Digestion	Completed				04/21/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/20/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/21/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/21/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	04/21/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0078	0.0039	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDE	0.046	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDT	0.09	0.039	mg/Kg	10	04/23/20	CG	SW8081B

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-04

Phoenix I.D.: CF75987

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Aldrin	ND	0.0039	mg/Kg	2	04/22/20	CG	SW8081B
b-BHC	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/22/20	CG	SW8081B
d-BHC	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/22/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/22/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/22/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	65		%	2	04/22/20	CG	30 - 150 %
% DCBP (Confirmation)	65		%	2	04/22/20	CG	30 - 150 %
% TCMX	57		%	2	04/22/20	CG	30 - 150 %
% TCMX (Confirmation)	58		%	2	04/22/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.023	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-04

Phoenix I.D.: CF75987

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.023	mg/Kg	1	04/21/20	JLI	SW8260C
Acetone	ND	0.23	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.0027	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.027	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0091	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.0091	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0091	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0091	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0091	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/21/20	JLI	70 - 130 %

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-04

Phoenix I.D.: CF75987

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	113		%	1	04/21/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	04/21/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	0.49	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	0.55	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	0.52	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	0.38	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	0.42	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	0.53	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	1.1	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.39	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	0.6	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	1	0.26	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	54		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	41		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	82		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	15:05
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75988

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Arsenic	4.50	0.77	mg/Kg	1	04/21/20	CPP	SW6010D
Barium	304	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Cadmium	1.85	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Chromium	31.4	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Mercury	0.10	0.03	mg/Kg	2	04/21/20	RS	SW7471B
Lead	410	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/21/20	CPP	SW6010D
SPLP Lead	0.066	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	80		%		04/20/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/20/20	RB/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/20/20	RR/EE	SW3545A
Extraction of CT ETPH	Completed				04/20/20	GG/ML	SW3545A
Mercury Digestion	Completed				04/21/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/20/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	150	61	mg/Kg	1	04/21/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/21/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	90		%	1	04/21/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDE	0.027	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDT	0.06	0.0083	mg/Kg	2	04/22/20	CG	SW8081B

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-05

Phoenix I.D.: CF75988

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Alachlor	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Aldrin	ND	0.0041	mg/Kg	2	04/22/20	CG	SW8081B
b-BHC	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Chlordane	ND	0.041	mg/Kg	2	04/22/20	CG	SW8081B
d-BHC	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Dieldrin	ND	0.0041	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan I	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan II	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan sulfate	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Endrin	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Endrin aldehyde	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Endrin ketone	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
g-BHC	ND	0.0017	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor epoxide	ND	0.0083	mg/Kg	2	04/22/20	CG	SW8081B
Methoxychlor	ND	0.041	mg/Kg	2	04/22/20	CG	SW8081B
Toxaphene	ND	0.17	mg/Kg	2	04/22/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	69		%	2	04/22/20	CG	30 - 150 %
% DCBP (Confirmation)	64		%	2	04/22/20	CG	30 - 150 %
% TCMX	63		%	2	04/22/20	CG	30 - 150 %
% TCMX (Confirmation)	55		%	2	04/22/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-05

Phoenix I.D.: CF75988

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/21/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0071	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.0071	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0071	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0071	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0071	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.0036	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/21/20	JLI	70 - 130 %

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-05

Phoenix I.D.: CF75988

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	109		%	1	04/21/20	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/21/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	0.32	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	0.53	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	0.6	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	0.56	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	0.46	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	0.44	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	0.59	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	1.1	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.47	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	0.53	0.29	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	1.1	0.29	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	40		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	30		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	63		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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:

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

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

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

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	15:18
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75989

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Arsenic	6.00	0.78	mg/Kg	1	04/21/20	CPP	SW6010D
Barium	63.5	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Cadmium	1.11	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Chromium	21.8	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	04/21/20	RS	SW7471B
Lead	283	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/21/20	CPP	SW6010D
SPLP Lead	0.067	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	83		%		04/20/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/20/20	RB/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/20/20	RR/EE	SW3545A
Extraction of CT ETPH	Completed				04/20/20	GG/ML	SW3545A
Mercury Digestion	Completed				04/21/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/20/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	130	59	mg/Kg	1	04/21/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/21/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	04/21/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDE	0.036	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDT	0.078	0.0078	mg/Kg	2	04/22/20	CG	SW8081B

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-06

Phoenix I.D.: CF75989

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Aldrin	ND	0.0039	mg/Kg	2	04/22/20	CG	SW8081B
b-BHC	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/22/20	CG	SW8081B
d-BHC	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/22/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/22/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/22/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	65		%	2	04/22/20	CG	30 - 150 %
% DCBP (Confirmation)	65		%	2	04/22/20	CG	30 - 150 %
% TCMX	55		%	2	04/22/20	CG	30 - 150 %
% TCMX (Confirmation)	54		%	2	04/22/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.029	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-06

Phoenix I.D.: CF75989

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.029	mg/Kg	1	04/21/20	JLI	SW8260C
Acetone	ND	0.29	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.0035	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.035	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.012	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.012	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.012	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.012	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.012	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.0058	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	04/21/20	JLI	70 - 130 %

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-06

Phoenix I.D.: CF75989

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	112		%	1	04/21/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	04/21/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	0.3	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	0.34	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	0.35	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	0.31	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	0.36	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	0.67	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.3	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	0.31	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	0.62	0.28	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	79		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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:

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

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

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

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	15:30
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75990

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Arsenic	6.69	0.77	mg/Kg	1	04/21/20	CPP	SW6010D
Barium	59.3	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Cadmium	1.19	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Chromium	26.1	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	04/21/20	RS	SW7471B
Lead	235	0.39	mg/Kg	1	04/21/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/21/20	CPP	SW6010D
SPLP Lead	0.196	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	83		%		04/20/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/20/20	RB/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/20/20	RR/EE	SW3545A
Extraction of CT ETPH	Completed				04/20/20	GG/ML	SW3545A
Mercury Digestion	Completed				04/21/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/20/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	04/21/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/21/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/21/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDE	0.053	0.008	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDT	0.062	0.008	mg/Kg	2	04/22/20	CG	SW8081B

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-07

Phoenix I.D.: CF75990

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Alachlor	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Aldrin	ND	0.004	mg/Kg	2	04/22/20	CG	SW8081B
b-BHC	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Chlordane	ND	0.04	mg/Kg	2	04/22/20	CG	SW8081B
d-BHC	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Dieldrin	ND	0.004	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan I	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan II	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan sulfate	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Endrin	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Endrin aldehyde	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Endrin ketone	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor epoxide	ND	0.008	mg/Kg	2	04/22/20	CG	SW8081B
Methoxychlor	ND	0.04	mg/Kg	2	04/22/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/22/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	70		%	2	04/22/20	CG	30 - 150 %
% DCBP (Confirmation)	67		%	2	04/22/20	CG	30 - 150 %
% TCMX	63		%	2	04/22/20	CG	30 - 150 %
% TCMX (Confirmation)	62		%	2	04/22/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0031	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.026	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-07

Phoenix I.D.: CF75990

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.026	mg/Kg	1	04/21/20	JLI	SW8260C
Acetone	ND	0.26	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.0031	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.031	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.0052	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	04/21/20	JLI	70 - 130 %

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-07

Phoenix I.D.: CF75990

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	109		%	1	04/21/20	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/21/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	0.36	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	0.43	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	0.44	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	0.29	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	0.39	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	0.43	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	0.65	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.3	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	0.28	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	0.63	0.28	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	83		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	16:55
Location Code:	TRC-NONDAS	Received by:	SW	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75991

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	04/21/20	CPP	SW6010D
Arsenic	38.5	0.84	mg/Kg	1	04/21/20	CPP	SW6010D
Barium	75.7	0.42	mg/Kg	1	04/21/20	CPP	SW6010D
Cadmium	1.50	0.42	mg/Kg	1	04/21/20	CPP	SW6010D
Chromium	25.9	0.42	mg/Kg	1	04/21/20	CPP	SW6010D
Mercury	0.10	0.07	mg/Kg	5	04/21/20	RS	SW7471B
Lead	431	0.42	mg/Kg	1	04/21/20	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	04/21/20	CPP	SW6010D
SPLP Lead	0.124	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	84		%		04/20/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/20/20	RB/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/20/20	RR/EE	SW3545A
Extraction of CT ETPH	Completed				04/20/20	GG/ML	SW3545A
Mercury Digestion	Completed				04/21/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/20/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	120	59	mg/Kg	1	04/21/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/21/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	04/21/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.047	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.1	0.078	mg/Kg	20	04/23/20	CG	SW8081B

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-08

Phoenix I.D.: CF75991

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	70		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	48		%	2	04/23/20	CG	30 - 150 %
% TCMX	52		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	51		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-08

Phoenix I.D.: CF75991

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/21/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.0027	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.027	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0089	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.0089	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0089	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0089	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0089	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.0045	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	04/21/20	JLI	70 - 130 %

Ver 2

Project ID: RT 15 MERRITT PARKWAY
Client ID: SB-08

Phoenix I.D.: CF75991

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	110		%	1	04/21/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	04/21/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	0.49	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	0.52	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	0.53	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	0.37	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	0.5	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	0.56	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	1	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.39	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	0.51	0.28	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	0.94	0.28	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	54		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	64		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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:

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

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

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

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/20/20	14:00
Location Code:	TRC-NONDAS	Received by:	B	04/20/20	17:02
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF75982
Phoenix ID: CF75993

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: TB20200420 HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.14	mg/Kg	50	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.7	mg/Kg	50	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	1.3	mg/Kg	50	04/21/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: TB20200420 HL

Phoenix I.D.: CF75993

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5	mg/Kg	50	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.025	mg/Kg	50	04/21/20	JLI	SW8260C
Benzene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Bromoform	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Bromomethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Chloroethane	ND	0.15	mg/Kg	50	04/21/20	JLI	SW8260C
Chloroform	ND	0.12	mg/Kg	50	04/21/20	JLI	SW8260C
Chloromethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	3	mg/Kg	50	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Naphthalene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
o-Xylene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Styrene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Toluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.5	mg/Kg	50	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	102		%	50	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	99		%	50	04/21/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	104		%	50	04/21/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: TB20200420 HL

Phoenix I.D.: CF75993

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (50x)	101		%	50	04/21/20	JLI	70 - 130 %
Field Extraction	Completed				04/20/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

QA/QC Report

May 04, 2020

QA/QC Data

SDG I.D.: GCF75982

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 527096 (mg/L), QC Sample No: CF75709 (CF75983)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	115			104			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 527094 (mg/kg), QC Sample No: CF75985 2X (CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991)														
Mercury - Soil	BRL	0.03	0.05	0.04	NC	104	94.6	9.5	102	108	5.7	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 527028 (mg/L), QC Sample No: CF75587 (CF75983)														
ICP Metals - Aqueous														
Arsenic	BRL	0.004	<0.004	<0.004	NC	94.7	98.7	4.1	101			80 - 120	20	
Barium	BRL	0.002	0.269	0.266	1.10	96.1	101	5.0	101			80 - 120	20	
Cadmium	BRL	0.001	0.034	0.034	0	90.7	99.5	9.3	97.5			80 - 120	20	
Chromium	0.002	0.001	0.015	0.015	0	95.3	101	5.8	99.1			80 - 120	20	
Lead	BRL	0.002	<0.002	<0.002	NC	90.8	96.7	6.3	98.0			80 - 120	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	93.1	94.9	1.9	95.7			80 - 120	20	
Silver	BRL	0.001	<0.001	<0.001	NC	97.8	99.5	1.7	102			80 - 120	20	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 527048 (mg/kg), QC Sample No: CF75889 (CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991)														
ICP Metals - Soil														
Arsenic	BRL	0.67	10.6	11.6	9.00	103	114	10.1	101			75 - 125	35	
Barium	BRL	0.33	120	129	7.20	103	110	6.6	103			75 - 125	35	
Cadmium	BRL	0.33	6.59	7.60	14.2	101	110	8.5	104			75 - 125	35	
Chromium	BRL	0.33	114	288	86.6	99.5	110	10.0	96.1			75 - 125	35	r
Lead	BRL	0.33	396	421	6.10	99.1	112	12.2	112			75 - 125	35	
Selenium	BRL	1.3	<1.7	<1.5	NC	98.5	108	9.2	96.9			75 - 125	35	
Silver	BRL	0.33	<0.42	0.44	NC	97.3	113	14.9	101			75 - 125	35	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 528524 (mg/L), QC Sample No: CF75985 (CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991)														
ICP Metals - SPLP Extraction														
Lead	BRL	0.010	0.037	0.038	NC	103	101	2.0	101			80 - 120	20	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														

r = This parameter is outside laboratory RPD specified recovery limits.

Environmental Laboratories, Inc.
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QA/QC Report

May 04, 2020

QA/QC Data

SDG I.D.: GCF75982

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 527155 (mg/L), QC Sample No: CF74301 (CF75983)											
TPH by GC (Extractable Products) - Water											
Ext. Petroleum H.C. (C9-C36)	ND	0.10	95	95	0.0				60 - 120	30	
% n-Pentacosane	54	%	64	66	3.1				50 - 150	20	
Comment: Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 526991 (mg/Kg), QC Sample No: CF75710 (CF75984, CF75985, CF75986, CF75987, CF75988)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	128	68	61.2	131	77	51.9	60 - 120	30	l,r
% n-Pentacosane	43	%	108	61	55.6	109	68	46.3	50 - 150	30	r,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 526998 (mg/Kg), QC Sample No: CF75989 (CF75989, CF75990, CF75991)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	94	93	1.1	55	88	46.2	60 - 120	30	r
% n-Pentacosane	65	%	73	70	4.2	53	85	46.4	50 - 150	30	r
Comment: Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 527018 (ug/L), QC Sample No: CF61321 (CF75983)											
Pesticides - Water											
4,4' -DDD	ND	0.003	95	105	10.0				40 - 140	20	
4,4' -DDE	ND	0.003	108	98	9.7				40 - 140	20	
4,4' -DDT	ND	0.003	89	98	9.6				40 - 140	20	
a-BHC	ND	0.002	78	87	10.9				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	77	86	11.0				40 - 140	20	
b-BHC	ND	0.002	89	94	5.5				40 - 140	20	
Chlordane	ND	0.050	91	94	3.2				40 - 140	20	
d-BHC	ND	0.005	41	45	9.3				40 - 140	20	
Dieldrin	ND	0.002	86	94	8.9				40 - 140	20	
Endosulfan I	ND	0.005	88	82	7.1				40 - 140	20	
Endosulfan II	ND	0.005	95	105	10.0				40 - 140	20	
Endosulfan sulfate	ND	0.005	72	99	31.6				40 - 140	20	r
Endrin	ND	0.005	108	120	10.5				40 - 140	20	
Endrin aldehyde	ND	0.005	89	100	11.6				40 - 140	20	
Endrin ketone	ND	0.005	93	107	14.0				40 - 140	20	
g-BHC	ND	0.002	78	88	12.0				40 - 140	20	
Heptachlor	ND	0.005	85	95	11.1				40 - 140	20	
Heptachlor epoxide	ND	0.005	85	94	10.1				40 - 140	20	

QA/QC Data

SDG I.D.: GCF75982

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methoxychlor	ND	0.005	109	120	9.6				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	34	%	81	81	0.0				30 - 150	20	
% DCBP (Confirmation)	41	%	74	84	12.7				30 - 150	20	
% TCMX	73	%	70	76	8.2				30 - 150	20	
% TCMX (Confirmation)	62	%	63	77	20.0				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 527054 (mg/Kg), QC Sample No: CF75486 2X (CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991)

Pesticides - Soil

4,4' -DDD	ND	0.0017	54	61	12.2	57	73	24.6	40 - 140	30	
4,4' -DDE	ND	0.0017	56	70	22.2	59	84	35.0	40 - 140	30	r
4,4' -DDT	ND	0.0017	52	56	7.4	68	92	30.0	40 - 140	30	
a-BHC	ND	0.001	52	54	3.8	48	58	18.9	40 - 140	30	
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	0.001	55	56	1.8	54	63	15.4	40 - 140	30	
b-BHC	ND	0.001	58	58	0.0	57	63	10.0	40 - 140	30	
Chlordane	ND	0.033	52	55	5.6	51	64	22.6	40 - 140	30	
d-BHC	ND	0.0033	47	50	6.2	45	56	21.8	40 - 140	30	
Dieldrin	ND	0.001	52	54	3.8	50	64	24.6	40 - 140	30	
Endosulfan I	ND	0.0033	55	53	3.7	70	82	15.8	40 - 140	30	
Endosulfan II	ND	0.0033	54	57	5.4	50	65	26.1	40 - 140	30	
Endosulfan sulfate	ND	0.0033	54	57	5.4	50	63	23.0	40 - 140	30	
Endrin	ND	0.0033	56	63	11.8	60	78	26.1	40 - 140	30	
Endrin aldehyde	ND	0.0033	50	51	2.0	41	55	29.2	40 - 140	30	
Endrin ketone	ND	0.0033	54	56	3.6	50	65	26.1	40 - 140	30	
g-BHC	ND	0.001	52	54	3.8	48	57	17.1	40 - 140	30	
Heptachlor	ND	0.0033	55	57	3.6	53	62	15.7	40 - 140	30	
Heptachlor epoxide	ND	0.0033	54	56	3.6	51	63	21.1	40 - 140	30	
Methoxychlor	ND	0.0033	54	59	8.8	58	71	20.2	40 - 140	30	
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	62	%	60	59	1.7	51	67	27.1	30 - 150	30	
% DCBP (Confirmation)	63	%	61	62	1.6	54	68	23.0	30 - 150	30	
% TCMX	46	%	50	51	2.0	44	52	16.7	30 - 150	30	
% TCMX (Confirmation)	49	%	53	50	5.8	47	69	37.9	30 - 150	30	r

QA/QC Batch 527044 (mg/Kg), QC Sample No: CF75894 (CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991)

Semivolatiles - Soil

2-Methylnaphthalene	ND	0.23	73	67	8.6	69	63	9.1	40 - 140	30	
Acenaphthene	ND	0.23	74	69	7.0	70	64	9.0	30 - 130	30	
Acenaphthylene	ND	0.13	75	69	8.3	60	66	9.5	40 - 140	30	
Anthracene	ND	0.23	72	70	2.8	56	59	5.2	40 - 140	30	
Benz(a)anthracene	ND	0.23	77	73	5.3	58	101	54.1	40 - 140	30	r
Benzo(a)pyrene	ND	0.13	76	73	4.0	59	79	29.0	40 - 140	30	
Benzo(b)fluoranthene	ND	0.16	90	86	4.5	82	117	35.2	40 - 140	30	r
Benzo(ghi)perylene	ND	0.23	75	74	1.3	54	57	5.4	40 - 140	30	
Benzo(k)fluoranthene	ND	0.23	58	55	5.3	32	134	122.9	40 - 140	30	m,r
Chrysene	ND	0.23	75	71	5.5	54	92	52.1	40 - 140	30	r
Dibenz(a,h)anthracene	ND	0.13	78	75	3.9	62	63	1.6	40 - 140	30	
Fluoranthene	ND	0.23	75	71	5.5	48	58	18.9	40 - 140	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Fluorene	ND	0.23	71	68	4.3	69	66	4.4	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	75	72	4.1	51	62	19.5	40 - 140	30	
Naphthalene	ND	0.23	63	60	4.9	59	55	7.0	40 - 140	30	
Phenanthrene	ND	0.13	73	71	2.8	74	54	31.3	40 - 140	30	r
Pyrene	ND	0.23	76	72	5.4	44	58	27.5	30 - 130	30	
% 2-Fluorobiphenyl	64	%	64	60	6.5	56	50	11.3	30 - 130	30	
% Nitrobenzene-d5	58	%	74	61	19.3	56	51	9.3	30 - 130	30	
% Terphenyl-d14	84	%	81	77	5.1	63	59	6.6	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527036 (ug/L), QC Sample No: CF75125 (CF75983)

Semivolatiles by SIM, PAH - Water

2-Methylnaphthalene	ND	0.50	55	52	5.6				30 - 130	20	
Acenaphthene	ND	0.50	65	64	1.6				30 - 130	20	
Acenaphthylene	ND	0.10	65	65	0.0				30 - 130	20	
Anthracene	ND	0.10	62	63	1.6				30 - 130	20	
Benz(a)anthracene	ND	0.05	76	75	1.3				30 - 130	20	
Benzo(a)pyrene	ND	0.20	79	76	3.9				30 - 130	20	
Benzo(b)fluoranthene	ND	0.07	95	88	7.7				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	67	63	6.2				30 - 130	20	
Benzo(k)fluoranthene	ND	0.10	51	52	1.9				30 - 130	20	
Chrysene	ND	0.05	60	58	3.4				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	81	77	5.1				30 - 130	20	
Fluoranthene	ND	0.50	64	61	4.8				30 - 130	20	
Fluorene	ND	0.10	68	69	1.5				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.10	76	72	5.4				30 - 130	20	
Naphthalene	ND	0.50	56	53	5.5				30 - 130	20	
Phenanthrene	ND	0.06	70	70	0.0				30 - 130	20	
Pyrene	ND	0.07	67	66	1.5				30 - 130	20	
% 2-Fluorobiphenyl	61	%	60	59	1.7				30 - 130	20	
% Nitrobenzene-d5	56	%	57	54	5.4				30 - 130	20	
% Terphenyl-d14	61	%	63	61	3.2				30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527105 (mg/Kg), QC Sample No: CF75991 (CF75982, CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	104	101	2.9				70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	108	106	1.9				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	99	98	1.0				70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	99	97	2.0				70 - 130	30	
1,1-Dichloroethane	ND	0.005	106	104	1.9				70 - 130	30	
1,1-Dichloroethene	ND	0.005	108	110	1.8				70 - 130	30	
1,1-Dichloropropene	ND	0.005	102	98	4.0				70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	101	97	4.0				70 - 130	30	
1,2,3-Trichloropropane	ND	0.005	95	94	1.1				70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	103	98	5.0				70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.001	99	98	1.0				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	111	107	3.7				70 - 130	30	
1,2-Dibromoethane	ND	0.005	98	98	0.0				70 - 130	30	

QA/QC Data

SDG I.D.: GCF75982

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dichlorobenzene	ND	0.005	96	94	2.1				70 - 130	30
1,2-Dichloroethane	ND	0.005	100	98	2.0				70 - 130	30
1,2-Dichloropropane	ND	0.005	101	100	1.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	100	99	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	0.005	97	95	2.1				70 - 130	30
1,3-Dichloropropane	ND	0.005	97	96	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	0.005	96	94	2.1				70 - 130	30
2,2-Dichloropropane	ND	0.005	113	112	0.9				70 - 130	30
2-Chlorotoluene	ND	0.005	97	97	0.0				70 - 130	30
2-Hexanone	ND	0.025	97	95	2.1				70 - 130	30
2-Isopropyltoluene	ND	0.005	108	107	0.9				70 - 130	30
4-Chlorotoluene	ND	0.005	97	95	2.1				70 - 130	30
4-Methyl-2-pentanone	ND	0.025	106	105	0.9				70 - 130	30
Acetone	ND	0.01	88	85	3.5				70 - 130	30
Acrylonitrile	ND	0.005	117	116	0.9				70 - 130	30
Benzene	ND	0.001	104	102	1.9				70 - 130	30
Bromobenzene	ND	0.005	97	97	0.0				70 - 130	30
Bromochloromethane	ND	0.005	108	108	0.0				70 - 130	30
Bromodichloromethane	ND	0.005	106	105	0.9				70 - 130	30
Bromoform	ND	0.005	109	108	0.9				70 - 130	30
Bromomethane	ND	0.005	122	131	7.1				70 - 130	30
Carbon Disulfide	ND	0.005	113	115	1.8				70 - 130	30
Carbon tetrachloride	ND	0.005	115	113	1.8				70 - 130	30
Chlorobenzene	ND	0.005	98	96	2.1				70 - 130	30
Chloroethane	ND	0.005	105	110	4.7				70 - 130	30
Chloroform	ND	0.005	106	104	1.9				70 - 130	30
Chloromethane	ND	0.005	106	105	0.9				70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	108	107	0.9				70 - 130	30
cis-1,3-Dichloropropene	ND	0.005	104	104	0.0				70 - 130	30
Dibromochloromethane	ND	0.003	108	107	0.9				70 - 130	30
Dibromomethane	ND	0.005	100	99	1.0				70 - 130	30
Dichlorodifluoromethane	ND	0.005	95	93	2.1				70 - 130	30
Ethylbenzene	ND	0.001	102	99	3.0				70 - 130	30
Hexachlorobutadiene	ND	0.005	106	103	2.9				70 - 130	30
Isopropylbenzene	ND	0.001	99	97	2.0				70 - 130	30
m&p-Xylene	ND	0.002	101	99	2.0				70 - 130	30
Methyl ethyl ketone	ND	0.005	101	96	5.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	110	112	1.8				70 - 130	30
Methylene chloride	ND	0.005	96	98	2.1				70 - 130	30
Naphthalene	ND	0.005	101	99	2.0				70 - 130	30
n-Butylbenzene	ND	0.001	106	103	2.9				70 - 130	30
n-Propylbenzene	ND	0.001	100	98	2.0				70 - 130	30
o-Xylene	ND	0.002	101	100	1.0				70 - 130	30
p-Isopropyltoluene	ND	0.001	103	102	1.0				70 - 130	30
sec-Butylbenzene	ND	0.001	106	106	0.0				70 - 130	30
Styrene	ND	0.005	102	100	2.0				70 - 130	30
tert-Butylbenzene	ND	0.001	98	98	0.0				70 - 130	30
Tetrachloroethene	ND	0.005	103	101	2.0				70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	114	114	0.0				70 - 130	30
Toluene	ND	0.001	105	102	2.9				70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	106	107	0.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	108	106	1.9				70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	127	127	0.0				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichloroethene	ND	0.005	101	99	2.0				70 - 130	30	
Trichlorofluoromethane	ND	0.005	114	113	0.9				70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	121	122	0.8				70 - 130	30	
Vinyl chloride	ND	0.005	113	114	0.9				70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	100	102	2.0				70 - 130	30	
% Bromofluorobenzene	99	%	100	101	1.0				70 - 130	30	
% Dibromofluoromethane	109	%	109	109	0.0				70 - 130	30	
% Toluene-d8	101	%	101	101	0.0				70 - 130	30	

Comment:

The Low Level MS/MSD are not reported for this batch.

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

QA/QC Batch 527105H (mg/Kg), QC Sample No: CF75991 50X (CF75993 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	0.25	97	95	2.1	91	91	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	0.25	100	98	2.0	95	94	1.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.25	91	91	0.0	88	91	3.4	70 - 130	30	
1,1,2-Trichloroethane	ND	0.25	92	92	0.0	90	91	1.1	70 - 130	30	
1,1-Dichloroethane	ND	0.25	100	98	2.0	96	94	2.1	70 - 130	30	
1,1-Dichloroethene	ND	0.25	64	61	4.8	68	66	3.0	70 - 130	30	l,m
1,1-Dichloropropene	ND	0.25	97	95	2.1	96	94	2.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.25	97	99	2.0	91	91	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	0.25	87	85	2.3	86	87	1.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.25	102	102	0.0	92	92	0.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.25	96	94	2.1	92	90	2.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.25	93	92	1.1	90	93	3.3	70 - 130	30	
1,2-Dibromoethane	ND	0.25	92	91	1.1	91	91	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	0.25	93	92	1.1	89	88	1.1	70 - 130	30	
1,2-Dichloroethane	ND	0.25	93	93	0.0	92	91	1.1	70 - 130	30	
1,2-Dichloropropane	ND	0.25	97	96	1.0	95	94	1.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.25	96	94	2.1	93	91	2.2	70 - 130	30	
1,3-Dichlorobenzene	ND	0.25	95	94	1.1	90	88	2.2	70 - 130	30	
1,3-Dichloropropane	ND	0.25	92	91	1.1	90	90	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	0.25	95	93	2.1	89	87	2.3	70 - 130	30	
2,2-Dichloropropane	ND	0.25	104	103	1.0	90	92	2.2	70 - 130	30	
2-Chlorotoluene	ND	0.25	94	93	1.1	91	89	2.2	70 - 130	30	
2-Hexanone	ND	1.3	89	87	2.3	88	91	3.4	70 - 130	30	
2-Isopropyltoluene	ND	0.25	104	102	1.9	102	100	2.0	70 - 130	30	
4-Chlorotoluene	ND	0.25	94	92	2.2	89	88	1.1	70 - 130	30	
4-Methyl-2-pentanone	ND	1.3	97	94	3.1	96	99	3.1	70 - 130	30	
Acetone	ND	0.5	58	59	1.7	59	58	1.7	70 - 130	30	l,m
Acrylonitrile	ND	0.25	104	104	0.0	104	107	2.8	70 - 130	30	
Benzene	ND	0.25	100	98	2.0	99	97	2.0	70 - 130	30	
Bromobenzene	ND	0.25	94	93	1.1	90	90	0.0	70 - 130	30	
Bromochloromethane	ND	0.25	102	102	0.0	98	97	1.0	70 - 130	30	
Bromodichloromethane	ND	0.25	96	95	1.0	91	90	1.1	70 - 130	30	
Bromoform	ND	0.25	94	89	5.5	85	86	1.2	70 - 130	30	
Bromomethane	ND	0.25	87	84	3.5	83	84	1.2	70 - 130	30	
Carbon Disulfide	ND	0.25	64	63	1.6	67	68	1.5	70 - 130	30	l,m
Carbon tetrachloride	ND	0.25	99	96	3.1	88	92	4.4	70 - 130	30	
Chlorobenzene	ND	0.25	95	93	2.1	93	91	2.2	70 - 130	30	
Chloroethane	ND	0.25	42	39	7.4	40	38	5.1	70 - 130	30	l,m

QA/QC Data

SDG I.D.: GCF75982

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chloroform	ND	0.25	99	98	1.0	95	93	2.1	70 - 130	30	
Chloromethane	ND	0.25	100	100	0.0	107	105	1.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.25	103	102	1.0	99	97	2.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.25	98	97	1.0	89	90	1.1	70 - 130	30	
Dibromochloromethane	ND	0.15	97	95	2.1	89	90	1.1	70 - 130	30	
Dibromomethane	ND	0.25	94	92	2.2	91	92	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	0.25	91	91	0.0	111	109	1.8	70 - 130	30	
Ethylbenzene	ND	0.25	98	96	2.1	96	95	1.0	70 - 130	30	
Hexachlorobutadiene	ND	0.25	102	101	1.0	97	97	0.0	70 - 130	30	
Isopropylbenzene	ND	0.25	95	93	2.1	92	91	1.1	70 - 130	30	
m&p-Xylene	ND	0.25	98	96	2.1	96	94	2.1	70 - 130	30	
Methyl ethyl ketone	ND	0.25	95	92	3.2	89	89	0.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.25	104	103	1.0	99	98	1.0	70 - 130	30	
Methylene chloride	ND	0.25	84	83	1.2	82	81	1.2	70 - 130	30	
Naphthalene	ND	0.25	94	94	0.0	92	95	3.2	70 - 130	30	
n-Butylbenzene	ND	0.25	103	99	4.0	96	94	2.1	70 - 130	30	
n-Propylbenzene	ND	0.25	96	94	2.1	93	91	2.2	70 - 130	30	
o-Xylene	ND	0.25	98	96	2.1	95	94	1.1	70 - 130	30	
p-Isopropyltoluene	ND	0.25	100	98	2.0	97	95	2.1	70 - 130	30	
sec-Butylbenzene	ND	0.25	102	99	3.0	99	98	1.0	70 - 130	30	
Styrene	ND	0.25	99	97	2.0	96	95	1.0	70 - 130	30	
tert-Butylbenzene	ND	0.25	95	92	3.2	92	91	1.1	70 - 130	30	
Tetrachloroethene	ND	0.25	101	99	2.0	98	96	2.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.25	101	100	1.0	101	103	2.0	70 - 130	30	
Toluene	ND	0.25	100	99	1.0	98	97	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.25	98	95	3.1	94	93	1.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.25	99	98	1.0	89	91	2.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.25	113	109	3.6	96	100	4.1	70 - 130	30	
Trichloroethene	ND	0.25	97	95	2.1	97	94	3.1	70 - 130	30	
Trichlorofluoromethane	ND	0.25	31	28	10.2	30	28	6.9	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	0.25	79	77	2.6	84	84	0.0	70 - 130	30	
Vinyl chloride	ND	0.25	111	110	0.9	116	115	0.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	101	102	1.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	99	%	101	101	0.0	100	101	1.0	70 - 130	30	
% Dibromofluoromethane	103	%	107	107	0.0	101	102	1.0	70 - 130	30	
% Toluene-d8	101	%	101	101	0.0	100	101	1.0	70 - 130	30	

Comment:

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

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

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

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

Phyllis Shiller, Laboratory Director
May 04, 2020

Monday, May 04, 2020

Criteria: CT: GBM, GWP, SWP

State: CT

Sample Criteria Exceedances Report

GCF75982 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF75984	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	24	7.6	20	20	ug/Kg
CF75985	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	220	38	20	20	ug/Kg
CF75985	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	350	75	20	20	ug/Kg
CF75985	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.037	0.010	0.015	0.015	mg/L
CF75985	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.037	0.010	0.013	0.013	mg/L
CF75986	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	120	37	20	20	ug/Kg
CF75986	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	210	37	20	20	ug/Kg
CF75986	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.074	0.010	0.015	0.015	mg/L
CF75986	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.074	0.010	0.013	0.013	mg/L
CF75987	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	46	7.7	20	20	ug/Kg
CF75987	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	90	39	20	20	ug/Kg
CF75987	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.071	0.010	0.015	0.015	mg/L
CF75987	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.071	0.010	0.013	0.013	mg/L
CF75988	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	60	8.3	20	20	ug/Kg
CF75988	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	27	8.3	20	20	ug/Kg
CF75988	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.066	0.010	0.015	0.015	mg/L
CF75988	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.066	0.010	0.013	0.013	mg/L
CF75989	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	36	7.8	20	20	ug/Kg
CF75989	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	78	7.8	20	20	ug/Kg
CF75989	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.067	0.010	0.015	0.015	mg/L
CF75989	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.067	0.010	0.013	0.013	mg/L
CF75990	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	53	8.0	20	20	ug/Kg
CF75990	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	62	8.0	20	20	ug/Kg
CF75990	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.196	0.010	0.15	0.15	mg/L
CF75990	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.196	0.010	0.015	0.015	mg/L
CF75990	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.196	0.010	0.013	0.013	mg/L
CF75991	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	47	7.8	20	20	ug/Kg
CF75991	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	100	78	20	20	ug/Kg
CF75991	SPLP-PB	SPLP Lead	CT / RSR GWPC (ug/l) / Inorganics	0.124	0.010	0.015	0.015	mg/L
CF75991	SPLP-PB	SPLP Lead	CT / RSR SWPC (ug/l) / Inorganics	0.124	0.010	0.013	0.013	mg/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:*** TRC Environmental Corp.

Project Location: RT 15 MERRITT PARKWAY ***Project Number:***

Laboratory Sample ID(s): CF75982-CF75991, CF75993 ***Sampling Date(s):*** 4/20/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***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, ICP Narration, PEST Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Monday, May 04, 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

NY # 11301

RCP Certification Report

May 04, 2020

SDG I.D.: GCF75982

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 526991 (Samples: CF75984, CF75985, CF75986, CF75987, CF75988): -----

The blank surrogate was below criteria. (% n-Pentacosane(CF75710))all other surrogate recoveries were within criteria, the low bias affects the blank only.

The LCS and/or the LCSD recovery is above the upper range, therefore a slight high bias is possible. (Ext. Petroleum H.C. (C9-C36))

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Ext. Petroleum H.C. (C9-C36))

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% n-Pentacosane)

QC Batch 526998 (Samples: CF75989, CF75990, CF75991): -----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Ext. Petroleum H.C. (C9-C36))

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% n-Pentacosane)

Instrument:

AU-FID21 04/20/20-1 Jeff Bucko, Chemist 04/20/20

CF75985 (1X), CF75986 (1X), CF75987 (1X), CF75990 (1X)

The initial calibration (ETPH420I) 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 (420A012_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: CF75985, CF75986, CF75987, CF75990
Preceding CC 420A039 - Pentacosane -98%L (30%)
Succeeding CC 420A053 - Pentacosane -100%L (30%)

AU-FID22 04/20/20-1 Jeff Bucko, Chemist 04/20/20

CF75988 (1X), CF75989 (1X), CF75991 (1X)

The initial calibration (ETPH415I) 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 (420A003) and contained the following outliers: None.

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May 04, 2020

SDG I.D.: GCF75982

ETPH Narration

The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: CF75988, CF75989, CF75991
Preceding CC 420A054 - Pentacosane -98%L (30%)
Succeeding CC 420A064 - None.

AU-FID84 04/22/20-1 Jeff Bucko, Chemist 04/22/20

CF75984 (1X)

The initial calibration (ETPH211I) 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 (422A005_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 04/22/20-1 Jeff Bucko, Chemist 04/22/20

CF75983 (1X)

The initial calibration (ETPH420I) 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 (422A005_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 526991 (CF75710)

CF75984, CF75985, CF75986, CF75987, CF75988

All LCS recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(128%)
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: % n-Pentacosane(55.6%), Ext. Petroleum H.C. (C9-C36)(61.2%)
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 527155 (CF74301)

CF75983

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 526998 (CF75989)

CF75989, CF75990, CF75991

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: % n-Pentacosane(46.4%), Ext. Petroleum H.C. (C9-C36)(46.2%)
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

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SDG I.D.: GCF75982

ETPH Narration

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 04/21/20 08:07 Rick Schweitzer, Chemist 04/21/20

CF75983, CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991

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 527096 (CF75709)

CF75983

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%.

QC (Site Specific):

Batch 527094 (CF75985)

CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991

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

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SDG I.D.: GCF75982

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 527028 (Samples: CF75983): -----

A trace amount of an analyte was found in blank but were not reported in the sample(s), therefore no bias is suspected. (Aqueous- Chromium)

QC Batch 527048 (Samples: CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Chromium)

Instrument:

ARCOS-2 04/20/20 09:48 Emily Kolominskaya, Chemist 04/20/20

CF75983

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 04/21/20 08:01 Cindy Pearce, Chemist 04/21/20

CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991

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 05/04/20 10:08 Emily Kolominskaya, Chemist 05/04/20

CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991

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 527028 (CF75587)

CF75983

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 527048 (CF75889)

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SDG I.D.: GCF75982

ICP Metals Narration

CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 528524 (CF75985)

CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PEST Narration

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

QC Batch 527018 (Samples: CF75983): -----

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. (Endosulfan sulfate)

QC Batch 527054 (Samples: CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991): -----

Instrument:

AU-ECD35 04/22/20-1 Chelsey Guerette, Chemist 04/22/20

CF75983 (1X)

The initial calibration (PS0420AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0420BI) RSD for the compound list was less than 20% except for the following compounds: None.
The Endrin and DDT breakdown does not exceed 15% except for the following compounds:None.
The Endrin and DDT breakdown does not exceed the maximum of 20% except for the following compounds:None.
The continuing calibration %D for the compound list was less than 20% except for the following compounds:None.

AU-ECD4 04/22/20-1 Chelsey Guerette, Chemist 04/22/20

CF75984 (2X), CF75985 (10X), CF75986 (10X), CF75987 (2X), CF75988 (2X), CF75989 (2X), CF75990 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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: CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990
Preceding CC 422A044 - None.
Succeeding CC 422A057 - Endrin -35%L (20%), Methoxychlor -22%L (20%)
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

AU-ECD7 04/23/20-1 Chelsey Guerette, Chemist 04/23/20

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SDG I.D.: GCF75982

PEST Narration

CF75985 (2X, 20X), CF75986 (2X), CF75987 (10X), CF75991 (2X, 20X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 527018 (CF61321)

CF75983

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: Endosulfan sulfate(31.6%)
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

Batch 527054 (CF75486)

CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991

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:

CHEM34 04/20/20-1 Wes Bryon, Chemist 04/20/20

CF75984 (1X), CF75985 (1X), CF75986 (1X), CF75987 (1X), CF75988 (1X), CF75989 (1X), CF75990 (1X), CF75991 (1X)

Initial Calibration Evaluation (CHEM34/34_SPLIT_0410):
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 (CHEM34/0420_10-34_SPLIT_0410):
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 527044 (CF75894)

CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991

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SDG I.D.: GCF75982

SVOA Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

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

Instrument:

CHEM27 04/21/20-1 Wes Bryon, Chemist 04/21/20

CF75983 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_BNSIM18_0408):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0421_03-27_BNSIM18_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.

QC (Batch Specific):

Batch 527036 (CF75125)

CF75983

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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RCP Certification Report

May 04, 2020

SDG I.D.: GCF75982

VOA Narration

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

QC Batch 527105 (Samples: CF75982, CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane)

QC Batch 527105H: -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (1,1-Dichloroethene, Acetone, Carbon Disulfide, Chloroethane, Trichlorofluoromethane)

Instrument:

CHEM26 04/20/20-2 Jane Li, Chemist 04/20/20

CF75982 (1X), CF75984 (1X), CF75985 (1X), CF75986 (1X), CF75987 (1X), CF75988 (1X), CF75989 (1X), CF75990 (1X), CF75991 (1X, 50X), CF75993 (50X)

Initial Calibration Evaluation (CHEM26/VT-040920):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Acetone 29% (20%), Bromoform 21% (20%), Chloroethane 21% (20%), trans-1,4-dichloro-2-butene 27% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0420_05-VT-040920):
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 527105 (CF75991) CHEM26 4/20/2020-2

CF75982(1X), CF75984(1X), CF75985(1X), CF75986(1X), CF75987(1X), CF75988(1X), CF75989(1X), CF75990(1X), CF75991(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(131%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The Low Level MS/MSD are not reported for this batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QC (Site Specific):

Batch 527105H (CF75991) CHEM26 4/20/2020-2

CF75993(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(64%), Acetone(58%), Carbon Disulfide(64%), Chloroethane(42%), Trichlorofluoromethane(31%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(61%), Acetone(59%), Carbon

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VOA Narration

Disulfide(63%), Chloroethane(39%), Trichlorofluoromethane(28%)
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-Dichloroethene(68%), Acetone(59%), Carbon Disulfide(67%), Chloroethane(40%), Trichlorofluoromethane(30%)
All MSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(66%), Acetone(58%), Carbon Disulfide(68%), Chloroethane(38%), Trichlorofluoromethane(28%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 2.9C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]
Temp 4.1 °C Pg 1 of

CHAIN OF CUSTODY RECORD

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Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trccompanies.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: Conn DOT RT 15 Merritt Parkway
Report to: Kristi Gagnon
Invoice to: TRC
QUOTE #

Project P.O: 152374

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Gagnon Date: 4-20-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	PAHs (8270)	Total RCRA 8 Metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
75982	TB20200420	S	4-20-20	1400	X					3											
75983	FB20200420	S	4-20-20	1410	X	X	X	X	X				4				1				
75984	SB-01	S	4-20-20	1415	X	X	X	X	X	3	2										
75985	SB-02	S	4-20-20	1430	X	X	X	X	X	3	2										
75986	SB-03	S	4-20-20	1445	X	X	X	X	X	3	2										
75987	SB-04	S	4-20-20	1500	X	X	X	X	X	3	2										
75988	SB-05	S	4-20-20	1505	X	X	X	X	X	3	2										
75989	SB-06	S	4-20-20	1518	X	X	X	X	X	3	2										
* 75990	SB-07	S	4-20-20	1530	X	X	X	X	X	3	2										
* 75991	SB-08	S	4-20-20	1635	X	X	X	X	X	3	2										
75993	TB HL																				

Relinquished by:	Accepted by:	Date:	Time:
Kristi Gagnon		4-20-20	4:05
		4/20/20	17:20

Comments, Special Requirements or Regulations:
Pricing ~~per~~ DAS Contract
Conn DOT
No Sales Tax - Conn DOT
*Added Per client (SW) Day 1

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

GCF 75982

Shannon Wilhelm

Subject: FW: TRC FW: [EXTERNAL] RE: Revised COC

From: Gagnon, Kristi [mailto:KGagnon@trccompanies.com]
Sent: Monday, April 20, 2020 7:38 PM
To: Sarah Bell
Subject: RE: [EXTERNAL] RE: Revised COC

Good evening Sarah,

I apologize for all the back and forth on this project.

Please also revise the following soil sample name:
FB20200420 should read EB20200420, same with the sample labels

Please also add GB PMC for comparison criteria.

Thank you,
Kristi Gagnon
Environmental Scientist II

TRC
21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | C 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Sarah Bell <sarah@phoenixlabs.com>
Sent: Monday, April 20, 2020 4:49 PM
To: Gagnon, Kristi <KGagnon@trccompanies.com>
Subject: [EXTERNAL] RE: Revised COC

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Sorry Kristi my computer did a weird thing, I got this.

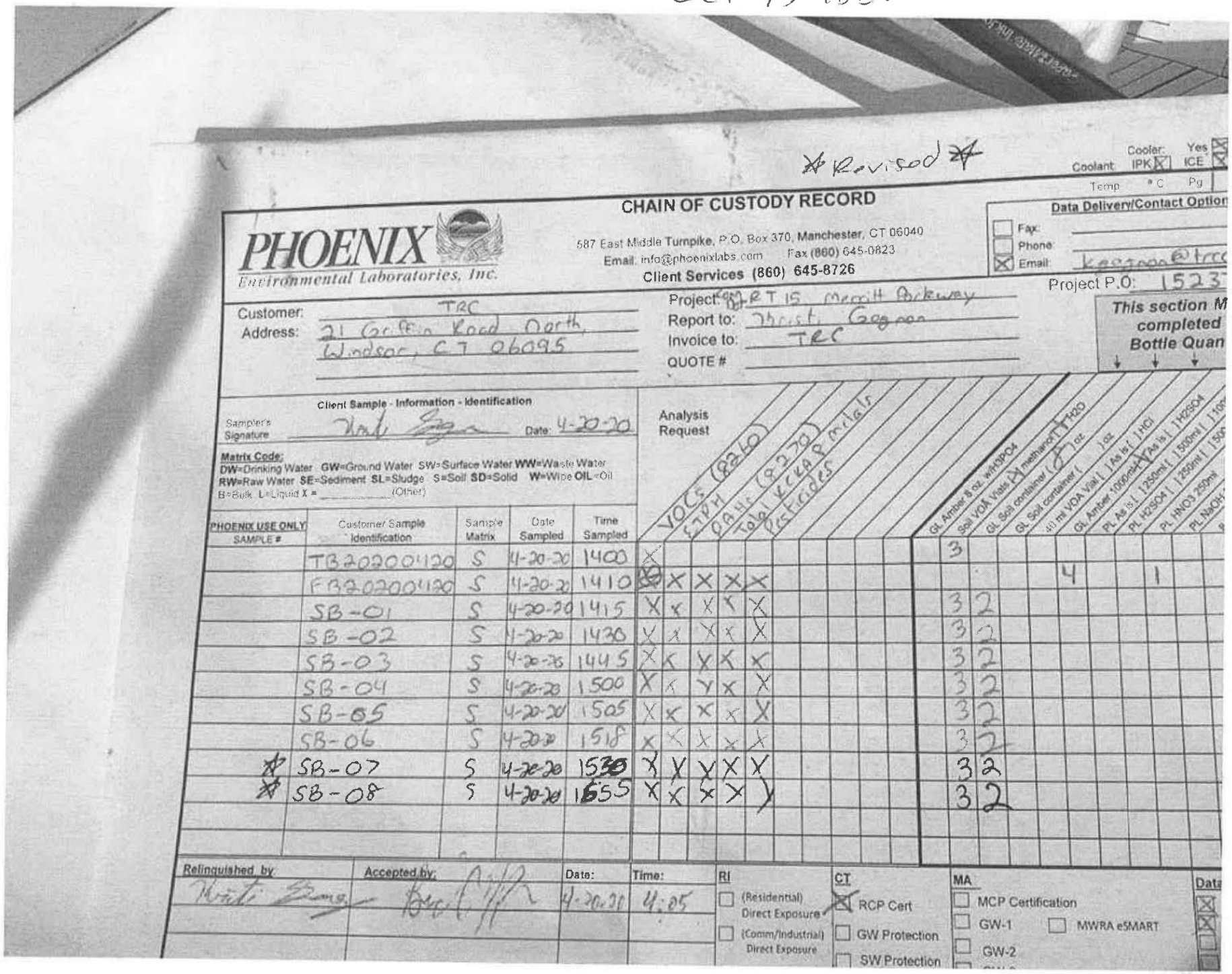
GCF 75982

From: Gagnon, Kristi [mailto:KGagnon@trccompanies.com]
Sent: Monday, April 20, 2020 4:25 PM
To: Sarah Bell
Subject: Revised COC

Good evening,

Please see revised coc for incoming samples. Two were left off by accident.

GCF 75982



* Revised *

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☒ Coolant: IPK ☒ ICE ☒ Temp °C Pg

Data Delivery/Contact Option
☐ Fax:
☐ Phone:
☒ Email: kgagnon@trc

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: CT RT 15 Merritt Parkway
Report to: Christ Gagnon
Invoice to: TRC
QUOTE #

Project P.O: 15237

This section M completed Bottle Quan

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 4-20-20

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil
B=Bulk L=Liquid X = _____ (Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	PAHs (8270)	Total RCRA 8 metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials ☒ methanol ☐ H2O	GL Soil container ( ) oz	40 ml VOA Vial ( ) As is ( ) HCl	GL Amber 1000ml ( ) As is ( ) HCl	PL As is ( ) 250ml ( ) 500ml ( ) H2SO4	PL H2SO4 ( ) 250ml ( ) 500ml ( )	PL HNO3 250ml	PL NaOH
	TB20200420	S	4-20-20	1400	X					3								
	FB20200420	S	4-20-20	1410	X	X	X	X	X				4		1			
	SB-01	S	4-20-20	1415	X	X	X	X	X	3	2							
	SB-02	S	4-20-20	1430	X	X	X	X	X	3	2							
	SB-03	S	4-20-20	1445	X	X	X	X	X	3	2							
	SB-04	S	4-20-20	1500	X	X	X	X	X	3	2							
	SB-05	S	4-20-20	1505	X	X	X	X	X	3	2							
	SB-06	S	4-20-20	1518	X	X	X	X	X	3	2							
*	SB-07	S	4-20-20	1530	X	X	X	X	X	3	2							
*	SB-08	S	4-20-20	1555	X	X	X	X	X	3	2							

Relinquished by	Accepted by:	Date:	Time:
[signature]	[signature]	4-20-20	4:05

RI
☐ (Residential) Direct Exposure
☐ (Comm/Industrial) Direct Exposure

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection

MA
☐ MCP Certification
☐ GW-1 ☐ MWRA eSMART
☐ GW-2

Data
☒
☒
☐
☐

GCF75982

Thanks,
Kristi
Sent from my iPhone

Sarah Bell

From: Gagnon, Kristi <KGagnon@trccompanies.com>
Sent: Friday, May 01, 2020 12:05 PM
To: Sarah Bell
Subject: FW: [EXTERNAL] Phoenix Labs - GCF75982, RT 15 MERRITT PARKWAY - Report Ready

Good afternoon Sarah,

Can we also run these samples for SPLP Metals for lead, standard TAT:

SB-02,
SB-03,
SB-04,
SB-05,
SB-06,
SB-07,
SB-08

Thanks,
Kristi Gagnon
Environmental Scientist II

21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | **C** 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
Sent: Sunday, April 26, 2020 1:20 PM
To: Gagnon, Kristi <KGagnon@trccompanies.com>
Subject: [EXTERNAL] Phoenix Labs - GCF75982, RT 15 MERRITT PARKWAY - Report Ready

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Delivery group GCF75982 (RT 15 MERRITT PARKWAY) for the following samples:

CF75982 - TB20200420 LL
CF75983 - EB20200420
CF75984 - SB-01
CF75985 - SB-02
CF75986 - SB-03
CF75987 - SB-04
CF75988 - SB-05
CF75989 - SB-06
CF75990 - SB-07
CF75991 - SB-08
CF75993 - TB20200420 HL

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

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:KGagnon@trccompanies.com

PHOENIX
Environmental Laboratories, Inc.

Wednesday, May 06, 2020

Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: **CONN DOT RT 15 MERRITT**
SDG ID: **GCF77596**
Sample ID#s: CF77596 - CF77603

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

May 06, 2020

SDG I.D.: GCF77596

Version 2: Per client request SPLP Lead was added on.

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

Sample Id Cross Reference

May 06, 2020

SDG I.D.: GCF77596

Project ID: CONN DOT RT 15 MERRITT

Client Id	Lab Id	Matrix
SB-09	CF77596	SOIL
SB-10	CF77597	SOIL
SB-11	CF77598	SOIL
SB-12	CF77599	SOIL
SB-13	CF77600	SOIL
SB-14	CF77601	SOIL
SB-15	CF77602	SOIL
SB-11B	CF77603	SOIL

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

Analysis Report

May 06, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	16:10
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77596
Phoenix ID: CF77596

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	5.09	0.69	mg/Kg	1	04/23/20	EK	SW6010D
Barium	77.5	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.36	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	22.7	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	520	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.090	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	89		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	91		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0058	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.045	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.079	0.0074	mg/Kg	2	04/23/20	CG	SW8081B

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-09

Phoenix I.D.: CF77596

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	55		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	48		%	2	04/23/20	CG	30 - 150 %
% TCMX	52		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	53		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.023	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-09

Phoenix I.D.: CF77596

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.023	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.23	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0027	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.027	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0091	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0091	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0091	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0091	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0091	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0046	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-09

Phoenix I.D.: CF77596

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	91		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.33	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.36	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.33	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.27	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.32	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.38	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.56	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.26	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.38	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.49	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	77		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	63		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 06, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 06, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	16:20
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77596
Phoenix ID: CF77597

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	6.28	0.79	mg/Kg	1	04/23/20	EK	SW6010D
Barium	71.0	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.23	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	22.0	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	393	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.063	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	88		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/23/20	KK/MA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0046	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.041	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.14	0.037	mg/Kg	10	04/24/20	CG	SW8081B

Ver 2

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-10

Phoenix I.D.: CF77597

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	61		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	53		%	2	04/23/20	CG	30 - 150 %
% TCMX	61		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	58		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg	1	04/23/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
2-Chlorotoluene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/23/20	HM	SW8260C
2-Isopropyltoluene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
4-Chlorotoluene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-10

Phoenix I.D.: CF77597

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/23/20	HM	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/23/20	HM	SW8260C
Acrylonitrile	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Benzene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Bromobenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
Bromochloromethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Bromodichloromethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Bromoform	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Bromomethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Carbon Disulfide	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Carbon tetrachloride	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Chlorobenzene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Chloroethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Chloroform	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Chloromethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Dibromochloromethane	ND	0.0025	mg/Kg	1	04/23/20	HM	SW8260C
Dibromomethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Ethylbenzene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/23/20	HM	SW8260C
Isopropylbenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
m&p-Xylene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	04/23/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0082	mg/Kg	1	04/23/20	HM	SW8260C
Methylene chloride	ND	0.0082	mg/Kg	1	04/23/20	HM	SW8260C
Naphthalene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
n-Butylbenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
n-Propylbenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
o-Xylene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
p-Isopropyltoluene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
sec-Butylbenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
Styrene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
tert-Butylbenzene	ND	0.31	mg/Kg	50	04/23/20	HM	SW8260C
Tetrachloroethene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0082	mg/Kg	1	04/23/20	HM	SW8260C
Toluene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Total Xylenes	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.62	mg/Kg	50	04/23/20	HM	SW8260C
Trichloroethene	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0082	mg/Kg	1	04/23/20	HM	SW8260C
Vinyl chloride	ND	0.0041	mg/Kg	1	04/23/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/23/20	HM	70 - 130 %
% Bromofluorobenzene	76		%	1	04/23/20	HM	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-10

Phoenix I.D.: CF77597

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	1	04/23/20	HM	70 - 130 %
% Toluene-d8	86		%	1	04/23/20	HM	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	96		%	50	04/23/20	HM	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	04/23/20	HM	70 - 130 %
% Dibromofluoromethane (50x)	91		%	50	04/23/20	HM	70 - 130 %
% Toluene-d8 (50x)	94		%	50	04/23/20	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Fluoranthene	0.3	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/24/20	WB	SW8270D
Pyrene	0.27	0.26	mg/Kg	1	04/24/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	47		%	1	04/24/20	WB	30 - 130 %
% Nitrobenzene-d5	54		%	1	04/24/20	WB	30 - 130 %
% Terphenyl-d14	53		%	1	04/24/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		SW5035A

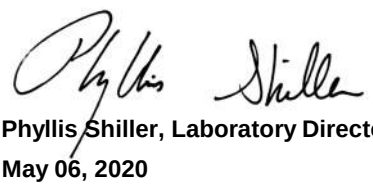
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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
May 06, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 2

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

Analysis Report

May 06, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	16:30
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77596
Phoenix ID: CF77598

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	5.72	0.71	mg/Kg	1	04/23/20	EK	SW6010D
Barium	83.2	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.28	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	23.5	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	257	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.039	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	85		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.002	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.0095	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.029	0.0078	mg/Kg	2	04/24/20	CG	SW8081B

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-11

Phoenix I.D.: CF77598

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	61		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	58		%	2	04/24/20	CG	30 - 150 %
% TCMX	60		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	59		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.25	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0099	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0099	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0099	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0099	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0099	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	04/23/20	JLI	70 - 130 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	64		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 06, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 06, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	16:40
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77596
Phoenix ID: CF77599

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	5.65	0.80	mg/Kg	1	04/23/20	EK	SW6010D
Barium	61.1	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.03	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	21.4	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	99.5	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	89		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0055	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.013	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	55		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	48		%	2	04/23/20	CG	30 - 150 %
% TCMX	52		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C

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Client ID: SB-12

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0081	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0081	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0081	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0081	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0081	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.004	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	93		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-12

Phoenix I.D.: CF77599

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	82		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	80		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	67		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 06, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 06, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	16:50
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77596
Phoenix ID: CF77600

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	4.73	0.81	mg/Kg	1	04/23/20	EK	SW6010D
Barium	78.0	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.43	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	25.8	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	402	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.115	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	83		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	110	59	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	90		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0044	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0097	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.022	0.0079	mg/Kg	2	04/23/20	CG	SW8081B

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-13

Phoenix I.D.: CF77600

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	60		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	51		%	2	04/23/20	CG	30 - 150 %
% TCMX	58		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	57		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-13

Phoenix I.D.: CF77600

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0026	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.026	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-13

Phoenix I.D.: CF77600

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.38	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.46	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.39	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.34	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.41	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.48	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.57	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.35	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.31	0.28	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.52	0.28	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	77		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	75		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	66		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 06, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 06, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	17:00
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77596
Phoenix ID: CF77601

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	3.94	0.74	mg/Kg	1	04/23/20	EK	SW6010D
Barium	48.9	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.12	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	22.7	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	349	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.585	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	85		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0036	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0073	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.017	0.0078	mg/Kg	2	04/23/20	CG	SW8081B

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-14

Phoenix I.D.: CF77601

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	57		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	51		%	2	04/23/20	CG	30 - 150 %
% TCMX	56		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	56		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-14

Phoenix I.D.: CF77601

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Benzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-14

Phoenix I.D.: CF77601

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	109		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	97		%	1	04/22/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	0.3	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.48	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.59	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.57	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.4	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.56	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.55	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.73	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.41	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.44	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.66	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	90		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	73		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 06, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 06, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	17:10
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77596
Phoenix ID: CF77602

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	6.51	0.82	mg/Kg	1	04/23/20	EK	SW6010D
Barium	63.7	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.19	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	22.3	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	210	0.41	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.234	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	86		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.002	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.0028	0.0015	mg/Kg	2	04/24/20	CG	SW8081B

Ver 2

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-15

Phoenix I.D.: CF77602

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	45		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	53		%	2	04/24/20	CG	30 - 150 %
% TCMX	45		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	56		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-15

Phoenix I.D.: CF77602

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0027	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.027	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.009	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.009	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.009	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.009	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.009	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0045	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-15

Phoenix I.D.: CF77602

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	107		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.29	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.37	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.28	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.32	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.32	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.31	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	84		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	80		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	67		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 06, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 06, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	16:35
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77596
Phoenix ID: CF77603

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-11B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	6.19	0.75	mg/Kg	1	04/23/20	EK	SW6010D
Barium	80.0	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.34	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	24.5	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	231	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	85		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0017	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.01	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.032	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	67		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	72		%	2	04/23/20	CG	30 - 150 %
% TCMX	58		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	58		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-11B

Phoenix I.D.: CF77603

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0026	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.026	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0088	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0044	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT
Client ID: SB-11B

Phoenix I.D.: CF77603

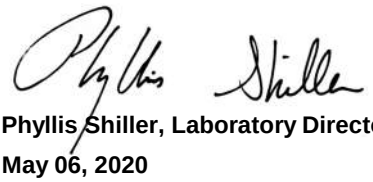
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.29	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.3	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	86		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	85		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	75		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 06, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

QA/QC Report

May 06, 2020

QA/QC Data

SDG I.D.: GCF77596

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 527396 (mg/kg), QC Sample No: CF77594 2X (CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	102	90.0	12.5	111	108	2.7	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 528525 (mg/L), QC Sample No: CF71381 (CF77596, CF77597, CF77598, CF77600, CF77601, CF77602)													
ICP Metals - SPLP Extraction													
Lead	BRL	0.010	0.010	0.011	NC	102	102	0.0	102			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 527326 (mg/kg), QC Sample No: CF77136 (CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603)													
ICP Metals - Soil													
Arsenic	BRL	0.67	1.22	1.12	NC	101	108	6.7	97.3			75 - 125	35
Barium	BRL	0.33	33.4	29.9	11.1	104	107	2.8	99.5			75 - 125	35
Cadmium	BRL	0.33	0.53	0.47	NC	98.0	102	4.0	97.2			75 - 125	35
Chromium	BRL	0.33	8.99	8.28	8.20	101	104	2.9	96.4			75 - 125	35
Lead	BRL	0.33	24.8	19.0	26.5	101	104	2.9	101			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.3	NC	98.8	102	3.2	93.9			75 - 125	35
Silver	BRL	0.33	<0.35	<0.32	NC	97.8	102	4.2	99.6			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

Environmental Laboratories, Inc.
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QA/QC Report

May 06, 2020

QA/QC Data

SDG I.D.: GCF77596

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 527337 (mg/Kg), QC Sample No: CF77592 (CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	81	96	16.9	119			60 - 120	30
% n-Pentacosane	62	%	72	79	9.3	90			50 - 150	30
Comment:										
There is no MSD for this batch.										
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 527335 (mg/Kg), QC Sample No: CF77594 2X (CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603)										
Pesticides - Soil										
4,4' -DDD	ND	0.0017	72	65	10.2	58	53	9.0	40 - 140	30
4,4' -DDE	ND	0.0017	67	62	7.8	69	62	10.7	40 - 140	30
4,4' -DDT	ND	0.0017	67	60	11.0	80	71	11.9	40 - 140	30
a-BHC	ND	0.001	56	51	9.3	46	38	19.0	40 - 140	30
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	0.001	65	61	6.3	52	45	14.4	40 - 140	30
b-BHC	ND	0.001	72	67	7.2	61	52	15.9	40 - 140	30
Chlordane	ND	0.033	67	62	7.8	53	46	14.1	40 - 140	30
d-BHC	ND	0.0033	66	61	7.9	51	45	12.5	40 - 140	30
Dieldrin	ND	0.001	69	63	9.1	53	48	9.9	40 - 140	30
Endosulfan I	ND	0.0033	70	64	9.0	54	49	9.7	40 - 140	30
Endosulfan II	ND	0.0033	73	66	10.1	55	50	9.5	40 - 140	30
Endosulfan sulfate	ND	0.0033	70	63	10.5	54	52	3.8	40 - 140	30
Endrin	ND	0.0033	59	53	10.7	50	45	10.5	40 - 140	30
Endrin aldehyde	ND	0.0033	58	51	12.8	45	42	6.9	40 - 140	30
Endrin ketone	ND	0.0033	70	64	9.0	53	48	9.9	40 - 140	30
g-BHC	ND	0.001	64	58	9.8	50	44	12.8	40 - 140	30
Heptachlor	ND	0.0033	63	58	8.3	51	45	12.5	40 - 140	30
Heptachlor epoxide	ND	0.0033	68	63	7.6	55	45	20.0	40 - 140	30
Methoxychlor	ND	0.0033	66	60	9.5	54	54	0.0	40 - 140	30
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	48	%	69	60	14.0	50	47	6.2	30 - 150	30
% DCBP (Confirmation)	54	%	75	70	6.9	55	49	11.5	30 - 150	30
% TCMX	43	%	58	53	9.0	45	42	6.9	30 - 150	30
% TCMX (Confirmation)	44	%	61	56	8.5	48	40	18.2	30 - 150	30
QA/QC Batch 527319 (mg/Kg), QC Sample No: CF77248 (CF77596, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603)										
Semivolatiles - Soil										
2-Methylnaphthalene	ND	0.23	71	76	6.8	57	73	24.6	40 - 140	30
Acenaphthene	ND	0.23	77	87	12.2	67	82	20.1	30 - 130	30
Acenaphthylene	ND	0.23	75	84	11.3	62	79	24.1	40 - 140	30

QA/QC Data

SDG I.D.: GCF77596

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Anthracene	ND	0.23	73	82	11.6	82	80	2.5	40 - 140	30	
Benz(a)anthracene	ND	0.23	72	81	11.8	86	82	4.8	40 - 140	30	
Benzo(a)pyrene	ND	0.23	74	82	10.3	84	82	2.4	40 - 140	30	
Benzo(b)fluoranthene	ND	0.23	89	99	10.6	97	97	0.0	40 - 140	30	
Benzo(ghi)perylene	ND	0.23	62	69	10.7	72	72	0.0	40 - 140	30	
Benzo(k)fluoranthene	ND	0.23	57	62	8.4	61	58	5.0	40 - 140	30	
Chrysene	ND	0.23	76	82	7.6	87	84	3.5	40 - 140	30	
Dibenz(a,h)anthracene	ND	0.23	68	76	11.1	79	78	1.3	40 - 140	30	
Fluoranthene	ND	0.23	54	61	12.2	62	59	5.0	40 - 140	30	
Fluorene	ND	0.23	73	79	7.9	69	80	14.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	60	66	9.5	71	71	0.0	40 - 140	30	
Naphthalene	ND	0.23	68	72	5.7	53	68	24.8	40 - 140	30	
Phenanthrene	ND	0.23	73	83	12.8	79	82	3.7	40 - 140	30	
Pyrene	ND	0.23	54	63	15.4	63	60	4.9	30 - 130	30	
% 2-Fluorobiphenyl	77	%	67	75	11.3	54	69	24.4	30 - 130	30	
% Nitrobenzene-d5	69	%	69	73	5.6	51	66	25.6	30 - 130	30	
% Terphenyl-d14	67	%	56	65	14.9	66	61	7.9	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 527507 (mg/Kg), QC Sample No: CF78144 (CF77597)

Semivolatiles - Soil

2-Methylnaphthalene	ND	0.23	71			70	79	12.1	40 - 140	30	
Acenaphthene	ND	0.23	69			71	76	6.8	30 - 130	30	
Acenaphthylene	ND	0.13	67			68	74	8.5	40 - 140	30	
Anthracene	ND	0.23	68			69	76	9.7	40 - 140	30	
Benz(a)anthracene	ND	0.23	68			72	85	16.6	40 - 140	30	
Benzo(a)pyrene	ND	0.13	71			71	84	16.8	40 - 140	30	
Benzo(b)fluoranthene	ND	0.16	87			97	104	7.0	40 - 140	30	
Benzo(ghi)perylene	ND	0.23	69			61	77	23.2	40 - 140	30	
Benzo(k)fluoranthene	ND	0.23	53			50	65	26.1	40 - 140	30	
Chrysene	ND	0.23	67			68	80	16.2	40 - 140	30	
Dibenz(a,h)anthracene	ND	0.13	74			71	85	17.9	40 - 140	30	
Fluoranthene	ND	0.23	69			69	99	35.7	40 - 140	30	r
Fluorene	ND	0.23	71			77	85	9.9	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	69			62	80	25.4	40 - 140	30	
Naphthalene	ND	0.23	68			69	70	1.4	40 - 140	30	
Phenanthrene	ND	0.13	69			69	95	31.7	40 - 140	30	r
Pyrene	ND	0.23	70			74	100	29.9	30 - 130	30	
% 2-Fluorobiphenyl	61	%	66			65	65	0.0	30 - 130	30	
% Nitrobenzene-d5	53	%	63			61	67	9.4	30 - 130	30	
% Terphenyl-d14	76	%	78			79	89	11.9	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%)

QA/QC Batch 527441 (mg/Kg), QC Sample No: CF76926 (CF77601, CF77602, CF77603)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	97	97	0.0				70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	103	103	0.0				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	95	94	1.1				70 - 130	30	

QA/QC Data

SDG I.D.: GCF77596

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,2-Trichloroethane	ND	0.005	95	94	1.1				70 - 130	30	
1,1-Dichloroethane	ND	0.005	101	101	0.0				70 - 130	30	
1,1-Dichloroethene	ND	0.005	107	108	0.9				70 - 130	30	
1,1-Dichloropropene	ND	0.005	95	96	1.0				70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	92	88	4.4				70 - 130	30	
1,2,3-Trichloropropane	ND	0.005	92	91	1.1				70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	93	90	3.3				70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.001	92	91	1.1				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	104	103	1.0				70 - 130	30	
1,2-Dibromoethane	ND	0.005	94	94	0.0				70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	89	88	1.1				70 - 130	30	
1,2-Dichloroethane	ND	0.005	95	95	0.0				70 - 130	30	
1,2-Dichloropropane	ND	0.005	96	96	0.0				70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	93	92	1.1				70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	91	89	2.2				70 - 130	30	
1,3-Dichloropropane	ND	0.005	92	91	1.1				70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	89	88	1.1				70 - 130	30	
2,2-Dichloropropane	ND	0.005	107	107	0.0				70 - 130	30	
2-Chlorotoluene	ND	0.005	91	90	1.1				70 - 130	30	
2-Hexanone	ND	0.025	120	117	2.5				70 - 130	30	
2-Isopropyltoluene	ND	0.005	106	105	0.9				70 - 130	30	
4-Chlorotoluene	ND	0.005	90	89	1.1				70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	120	117	2.5				70 - 130	30	
Acetone	ND	0.01	137	133	3.0				70 - 130	30	I
Acrylonitrile	ND	0.005	122	121	0.8				70 - 130	30	
Benzene	ND	0.001	100	99	1.0				70 - 130	30	
Bromobenzene	ND	0.005	92	90	2.2				70 - 130	30	
Bromochloromethane	ND	0.005	105	103	1.9				70 - 130	30	
Bromodichloromethane	ND	0.005	101	100	1.0				70 - 130	30	
Bromoform	ND	0.005	105	103	1.9				70 - 130	30	
Bromomethane	ND	0.005	135	139	2.9				70 - 130	30	I
Carbon Disulfide	ND	0.005	116	117	0.9				70 - 130	30	
Carbon tetrachloride	ND	0.005	108	110	1.8				70 - 130	30	
Chlorobenzene	ND	0.005	92	92	0.0				70 - 130	30	
Chloroethane	ND	0.005	116	115	0.9				70 - 130	30	
Chloroform	ND	0.005	101	100	1.0				70 - 130	30	
Chloromethane	ND	0.005	113	112	0.9				70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	103	103	0.0				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	100	99	1.0				70 - 130	30	
Dibromochloromethane	ND	0.003	103	101	2.0				70 - 130	30	
Dibromomethane	ND	0.005	98	96	2.1				70 - 130	30	
Dichlorodifluoromethane	ND	0.005	104	102	1.9				70 - 130	30	
Ethylbenzene	ND	0.001	94	95	1.1				70 - 130	30	
Hexachlorobutadiene	ND	0.005	96	95	1.0				70 - 130	30	
Isopropylbenzene	ND	0.001	92	92	0.0				70 - 130	30	
m&p-Xylene	ND	0.002	94	95	1.1				70 - 130	30	
Methyl ethyl ketone	ND	0.005	130	127	2.3				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	113	113	0.0				70 - 130	30	
Methylene chloride	ND	0.005	96	95	1.0				70 - 130	30	
Naphthalene	ND	0.005	96	93	3.2				70 - 130	30	
n-Butylbenzene	ND	0.001	97	96	1.0				70 - 130	30	
n-Propylbenzene	ND	0.001	92	92	0.0				70 - 130	30	
o-Xylene	ND	0.002	95	95	0.0				70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
p-Isopropyltoluene	ND	0.001	96	95	1.0				70 - 130	30	
sec-Butylbenzene	ND	0.001	99	99	0.0				70 - 130	30	
Styrene	ND	0.005	96	95	1.0				70 - 130	30	
tert-Butylbenzene	ND	0.001	93	93	0.0				70 - 130	30	
Tetrachloroethene	ND	0.005	97	97	0.0				70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	119	117	1.7				70 - 130	30	
Toluene	ND	0.001	99	98	1.0				70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	104	105	1.0				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	102	102	0.0				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	131	127	3.1				70 - 130	30	l
Trichloroethene	ND	0.005	96	96	0.0				70 - 130	30	
Trichlorofluoromethane	ND	0.005	120	119	0.8				70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	122	125	2.4				70 - 130	30	
Vinyl chloride	ND	0.005	122	121	0.8				70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	101	101	0.0				70 - 130	30	
% Bromofluorobenzene	100	%	101	102	1.0				70 - 130	30	
% Dibromofluoromethane	107	%	109	109	0.0				70 - 130	30	
% Toluene-d8	101	%	101	101	0.0				70 - 130	30	

Comment:

The Low Level MS/MSD are not reported for this batch.

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

QA/QC Batch 527415 (mg/Kg), QC Sample No: CF77261 (CF77596, CF77597, CF77598, CF77599, CF77600)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	100	101	1.0	95	96	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	99	97	2.0	99	99	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	102	100	2.0	102	99	3.0	70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	98	97	1.0	95	96	1.0	70 - 130	30	
1,1-Dichloroethane	ND	0.005	95	96	1.0	96	97	1.0	70 - 130	30	
1,1-Dichloroethene	ND	0.005	105	105	0.0	101	105	3.9	70 - 130	30	
1,1-Dichloropropene	ND	0.005	100	99	1.0	95	98	3.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	98	99	1.0	69	68	1.5	70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005	92	92	0.0	95	93	2.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	99	98	1.0	70	68	2.9	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001	100	97	3.0	76	95	22.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	113	112	0.9	102	100	2.0	70 - 130	30	
1,2-Dibromoethane	ND	0.005	99	99	0.0	95	95	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	100	97	3.0	88	88	0.0	70 - 130	30	
1,2-Dichloroethane	ND	0.005	97	97	0.0	94	94	0.0	70 - 130	30	
1,2-Dichloropropane	ND	0.005	100	100	0.0	97	99	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	101	98	3.0	93	103	10.2	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	98	96	2.1	89	87	2.3	70 - 130	30	
1,3-Dichloropropane	ND	0.005	96	98	2.1	93	93	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	99	96	3.1	88	86	2.3	70 - 130	30	
2,2-Dichloropropane	ND	0.005	103	101	2.0	97	98	1.0	70 - 130	30	
2-Chlorotoluene	ND	0.005	101	99	2.0	96	95	1.0	70 - 130	30	
2-Hexanone	ND	0.025	104	105	1.0	91	90	1.1	70 - 130	30	
2-Isopropyltoluene	ND	0.005	105	102	2.9	98	100	2.0	70 - 130	30	
4-Chlorotoluene	ND	0.005	98	96	2.1	89	90	1.1	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	102	102	0.0	98	98	0.0	70 - 130	30	
Acetone	ND	0.01	124	100	21.4	102	79	25.4	70 - 130	30	
Acrylonitrile	ND	0.005	97	98	1.0	95	99	4.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCF77596

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzene	ND	0.001	102	101	1.0	98	99	1.0	70 - 130	30	
Bromobenzene	ND	0.005	102	101	1.0	94	95	1.1	70 - 130	30	
Bromochloromethane	ND	0.005	98	98	0.0	96	96	0.0	70 - 130	30	
Bromodichloromethane	ND	0.005	101	102	1.0	96	99	3.1	70 - 130	30	
Bromoform	ND	0.005	99	100	1.0	91	91	0.0	70 - 130	30	
Bromomethane	ND	0.005	120	122	1.7	111	112	0.9	70 - 130	30	
Carbon Disulfide	ND	0.005	98	100	2.0	79	82	3.7	70 - 130	30	
Carbon tetrachloride	ND	0.005	100	99	1.0	96	99	3.1	70 - 130	30	
Chlorobenzene	ND	0.005	99	99	0.0	93	94	1.1	70 - 130	30	
Chloroethane	ND	0.005	102	103	1.0	97	99	2.0	70 - 130	30	
Chloroform	ND	0.005	93	93	0.0	93	94	1.1	70 - 130	30	
Chloromethane	ND	0.005	106	107	0.9	96	95	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	95	97	2.1	93	97	4.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	102	100	2.0	92	93	1.1	70 - 130	30	
Dibromochloromethane	ND	0.003	103	105	1.9	96	97	1.0	70 - 130	30	
Dibromomethane	ND	0.005	99	98	1.0	96	96	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	126	125	0.8	114	115	0.9	70 - 130	30	
Ethylbenzene	ND	0.001	102	102	0.0	87	94	7.7	70 - 130	30	
Hexachlorobutadiene	ND	0.005	102	100	2.0	74	75	1.3	70 - 130	30	
Isopropylbenzene	ND	0.001	103	100	3.0	86	91	5.6	70 - 130	30	
m&p-Xylene	ND	0.002	99	99	0.0	85	91	6.8	70 - 130	30	
Methyl ethyl ketone	ND	0.005	105	101	3.9	107	102	4.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	91	89	2.2	89	78	13.2	70 - 130	30	
Methylene chloride	ND	0.005	92	92	0.0	105	90	15.4	70 - 130	30	
Naphthalene	ND	0.005	105	106	0.9	59	69	15.6	70 - 130	30	m
n-Butylbenzene	ND	0.001	106	103	2.9	78	84	7.4	70 - 130	30	
n-Propylbenzene	ND	0.001	103	100	3.0	80	87	8.4	70 - 130	30	
o-Xylene	ND	0.002	103	104	1.0	96	102	6.1	70 - 130	30	
p-Isopropyltoluene	ND	0.001	104	101	2.9	93	96	3.2	70 - 130	30	
sec-Butylbenzene	ND	0.001	108	105	2.8	88	91	3.4	70 - 130	30	
Styrene	ND	0.005	101	100	1.0	85	89	4.6	70 - 130	30	
tert-Butylbenzene	ND	0.001	101	99	2.0	97	97	0.0	70 - 130	30	
Tetrachloroethene	ND	0.005	101	100	1.0	97	100	3.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	95	96	1.0	94	91	3.2	70 - 130	30	
Toluene	ND	0.001	104	104	0.0	98	101	3.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	108	84	25.0	107	82	26.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	102	103	1.0	92	92	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	117	116	0.9	103	100	3.0	70 - 130	30	
Trichloroethene	ND	0.005	100	99	1.0	98	98	0.0	70 - 130	30	
Trichlorofluoromethane	ND	0.005	107	106	0.9	106	111	4.6	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	106	107	0.9	104	110	5.6	70 - 130	30	
Vinyl chloride	ND	0.005	116	115	0.9	109	108	0.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	97	%	101	100	1.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	97	%	98	100	2.0	97	99	2.0	70 - 130	30	
% Dibromofluoromethane	95	%	96	96	0.0	96	96	0.0	70 - 130	30	
% Toluene-d8	94	%	102	101	1.0	100	100	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 527604H (mg/Kg), QC Sample No: CF77271 50X (CF77597 (50X))

Volatiles - Soil (High Level)

1,2,3-Trichlorobenzene	ND	0.25	116	115	0.9	106	102	3.8	70 - 130	30	

QA/QC Data

SDG I.D.: GCF77596

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichloropropane	ND	0.25	88	88	0.0	86	84	2.4	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.25	116	115	0.9	105	101	3.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.25	100	100	0.0	97	90	7.5	70 - 130	30
1,2-Dichlorobenzene	ND	0.25	101	100	1.0	97	91	6.4	70 - 130	30
1,3,5-Trimethylbenzene	ND	0.25	98	98	0.0	96	89	7.6	70 - 130	30
1,3-Dichlorobenzene	ND	0.25	99	100	1.0	95	89	6.5	70 - 130	30
1,4-Dichlorobenzene	ND	0.25	100	99	1.0	94	89	5.5	70 - 130	30
2-Chlorotoluene	ND	0.25	99	100	1.0	97	90	7.5	70 - 130	30
2-Isopropyltoluene	ND	0.25	103	103	0.0	102	94	8.2	70 - 130	30
4-Chlorotoluene	ND	0.25	96	99	3.1	94	87	7.7	70 - 130	30
Bromobenzene	ND	0.25	99	99	0.0	96	91	5.3	70 - 130	30
Hexachlorobutadiene	ND	0.25	108	108	0.0	98	93	5.2	70 - 130	30
Isopropylbenzene	ND	0.25	98	98	0.0	96	89	7.6	70 - 130	30
Naphthalene	ND	0.25	111	110	0.9	107	108	0.9	70 - 130	30
n-Butylbenzene	ND	0.25	108	107	0.9	103	95	8.1	70 - 130	30
n-Propylbenzene	ND	0.25	99	99	0.0	97	90	7.5	70 - 130	30
p-Isopropyltoluene	ND	0.25	104	104	0.0	101	93	8.2	70 - 130	30
sec-Butylbenzene	ND	0.25	104	105	1.0	104	95	9.0	70 - 130	30
tert-Butylbenzene	ND	0.25	97	97	0.0	97	89	8.6	70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.25	110	108	1.8	94	94	0.0	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	102	102	0.0	101	103	2.0	70 - 130	30
% Bromofluorobenzene	99	%	99	101	2.0	99	100	1.0	70 - 130	30
% Dibromofluoromethane	93	%	95	95	0.0	92	94	2.2	70 - 130	30
% Toluene-d8	93	%	102	102	0.0	103	101	2.0	70 - 130	30

Comment:

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
May 06, 2020

Wednesday, May 06, 2020

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCF77596 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF77596	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	45	7.4	3	3	ug/Kg
CF77596	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	79	7.4	3	3	ug/Kg
CF77596	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	5.8	1.5	3	3	ug/Kg
CF77596	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	45	7.4	20	20	ug/Kg
CF77596	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	79	7.4	20	20	ug/Kg
CF77596	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	520	0.35	400	400	mg/Kg
CF77596	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.090	0.010	0.015	0.015	mg/L
CF77597	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	4.6	1.5	3	3	ug/Kg
CF77597	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	140	37	3	3	ug/Kg
CF77597	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	41	7.5	3	3	ug/Kg
CF77597	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	140	37	20	20	ug/Kg
CF77597	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	41	7.5	20	20	ug/Kg
CF77597	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.063	0.010	0.015	0.015	mg/L
CF77598	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	9.5	7.8	3	3	ug/Kg
CF77598	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	29	7.8	3	3	ug/Kg
CF77598	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	29	7.8	20	20	ug/Kg
CF77598	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.039	0.010	0.015	0.015	mg/L
CF77599	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	5.5	1.5	3	3	ug/Kg
CF77599	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	13	7.3	3	3	ug/Kg
CF77600	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	4.4	1.6	3	3	ug/Kg
CF77600	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	9.7	7.9	3	3	ug/Kg
CF77600	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	22	7.9	3	3	ug/Kg
CF77600	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	22	7.9	20	20	ug/Kg
CF77600	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	402	0.41	400	400	mg/Kg
CF77600	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.115	0.010	0.015	0.015	mg/L
CF77601	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	3.6	1.6	3	3	ug/Kg
CF77601	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	7.3	1.6	3	3	ug/Kg
CF77601	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	17	7.8	3	3	ug/Kg
CF77601	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.585	0.010	0.015	0.015	mg/L
CF77601	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.585	0.010	0.15	0.15	mg/L
CF77602	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.234	0.010	0.015	0.015	mg/L
CF77602	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.234	0.010	0.15	0.15	mg/L
CF77603	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	10	7.8	3	3	ug/Kg
CF77603	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	32	7.8	3	3	ug/Kg
CF77603	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	32	7.8	20	20	ug/Kg

Wednesday, May 06, 2020

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCF77596 - TRC-NONDAS

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:*** TRC Environmental Corp.

Project Location: CONN DOT RT 15 MERRITT ***Project Number:***

Laboratory Sample ID(s): CF77596-CF77603 ***Sampling Date(s):*** 4/20/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8081, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***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: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Wednesday, May 06, 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

NY # 11301

RCP Certification Report

May 06, 2020

SDG I.D.: GCF77596

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-FID11 04/23/20-1 Jeff Bucko, Chemist 04/23/20

CF77596 (1X), CF77597 (1X), CF77600 (1X)

The initial calibration (ETPH319I) 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 (423A003_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 04/22/20-1 Jeff Bucko, Chemist 04/22/20

CF77598 (1X), CF77599 (1X), CF77601 (1X), CF77602 (1X), CF77603 (1X)

The initial calibration (ETPH420I) 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 (422A005_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 527337 (CF77592)

CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603

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.
There is no MSD for this batch.
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 04/23/20 07:21 Rick Schweitzer, Chemist 04/23/20

CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603

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.

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Certification Report

May 06, 2020

SDG I.D.: GCF77596

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 527396 (CF77594)

CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 04/23/20 09:24 Emily Kolominskaya, Chemist 04/23/20

CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603

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 05/04/20 10:08 Emily Kolominskaya, Tina Hall, Chemist 05/04/20

CF77596, CF77597, CF77598, CF77600, CF77601, CF77602

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 527326 (CF77136)

CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 528525 (CF71381)

CF77596, CF77597, CF77598, CF77600, CF77601, CF77602

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NY # 11301

Certification Report

May 06, 2020

SDG I.D.: GCF77596

ICP Metals Narration

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PEST Narration

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

Instrument:

AU-ECD4 04/23/20-1 Chelsey Guerette, Chemist 04/23/20

CF77603 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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: CF77603
Preceding CC 423A036 - None.
Succeeding CC 423A049 - Endrin Ketone 22%H (20%)

AU-ECD4 04/24/20-1 Chelsey Guerette, Chemist 04/24/20

CF77597 (10X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 04/23/20-1 Chelsey Guerette, Chemist 04/23/20

CF77596 (2X), CF77597 (2X), CF77598 (2X), CF77599 (2X), CF77600 (2X), CF77601 (2X), CF77602 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 527335 (CF77594)

CF77596, CF77597, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

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

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RCP Certification Report

May 06, 2020

SDG I.D.: GCF77596

SVOA Narration

Instrument:

CHEM07 04/23/20-2 Wes Bryon, Chemist 04/23/20

CF77597 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_BN_0407):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Indeno(1,2,3-cd)pyrene 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 (CHEM07/0423_35-7_BN_0407):
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 04/22/20-1 Matt Richard, Chemist 04/22/20

CF77596 (1X), CF77598 (1X), CF77599 (1X), CF77600 (1X), CF77601 (1X), CF77602 (1X), CF77603 (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_0420):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0422_09-29_SPLIT_0420):
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 527319 (CF77248)

CF77596, CF77598, CF77599, CF77600, CF77601, CF77602, CF77603

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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RCP Certification Report

May 06, 2020

SDG I.D.: GCF77596

SVOA Narration

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 527507 (CF78144)

CF77597

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%)

VOA Narration

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

QC Batch 527441 (Samples: CF77601, CF77602, CF77603): -----

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. (Acetone, Bromomethane, trans-1,4-dichloro-2-butene)

Instrument:

CHEM14 04/22/20-2 Jane Li, Chemist 04/22/20

CF77596 (1X), CF77597 (1X), CF77598 (1X), CF77599 (1X), CF77600 (1X)

Initial Calibration Evaluation (CHEM14/VT042020):
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 Table 4 recommended minimum response factors: Tetrachloroethene 0.189 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0422_31-VT042020):
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.

CHEM14 04/23/20-1 Jane Li, Chemist 04/23/20

CF77597 (50X)

Initial Calibration Evaluation (CHEM14/VT042020):
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 Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0423_02A-VT042020):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 06, 2020

SDG I.D.: GCF77596

VOA Narration

CHEM26 04/22/20-2 Jane Li, Chemist 04/22/20

CF77601 (1X), CF77602 (1X), CF77603 (1X)

Initial Calibration Evaluation (CHEM26/VT-040920):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Acetone 29% (20%), Bromoform 21% (20%), Chloroethane 21% (20%), trans-1,4-dichloro-2-butene 27% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0422_06-VT-040920):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
96% of target compounds met criteria.
The following compounds did not meet % deviation criteria: 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 527415 (CF77261) CHEM14 4/22/2020-2

CF77596(1X), CF77597(1X), CF77598(1X), CF77599(1X), CF77600(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527441 (CF76926) CHEM26 4/22/2020-2

CF77601(1X), CF77602(1X), CF77603(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(137%), Bromomethane(135%), trans-1,4-dichloro-2-butene(131%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(133%), Bromomethane(139%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The Low Level MS/MSD are not reported for this batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527604H (CF77271) CHEM14 4/23/2020-1

CF77597(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 3.9C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]
Temp 2.9 °C Pg 1 of 1

CHAIN OF CUSTODY RECORD

PHOENIX
Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trcompanies.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: ConDot-RT 15 Marriott Project P.O.: 152374
Report to: Kristi Gagnon
Invoice to: TRC
QUOTE #

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Gagnon Date: 4-22-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	PAHs (8270)	Total RCRA Metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials (X methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
77596	SB-09	S	4-20-20	1610	X	X	X	X	X		3	2									5
77597	SB-10	S	4-20-20	1620	X	X	X	X	X		3	2									5
77598	SB-11	S	4-20-20	1630	X	X	X	X	X		3	2									5
77599	SB-12	S	4-20-20	1640	X	X	X	X	X		3	2									5
77600	SB-13	S	4-20-20	1650	X	X	X	X	X		3	2									5
77601	SB-14	S	4-20-20	1700	X	X	X	X	X		3	2									5
77602	SB-15	S	4-20-20	1710	X	X	X	X	X		3	2									5
77603	SB-11B	S	4-20-20	1635	X	X	X	X	X		3	2									5

Relinquished by:	Accepted by:	Date:	Time:
Kristi Gagnon TRC	Scott Jaffarian	4.22.20	1605
	Kristi Gagnon	4/22/20	17:45

Comments, Special Requirements or Regulations:
Non-DAS Contract
No Sales Tax-ConDot
* Soil VOAs frozen 4-20-20 Day 1

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Sarah Bell

From: Gagnon, Kristi <KGagnon@trccompanies.com>
Sent: Friday, May 01, 2020 12:07 PM
To: Sarah Bell
Subject: FW: [EXTERNAL] Phoenix Labs - GCF77596, CONN DOT RT 15 MERRITT - Report Ready

Good afternoon Sarah,

Can we also run these samples for SPLP Metals for lead, standard TAT:

SB-09,
SB-10,
SB-11,
SB-13,
SB-14,
SB-15

Kristi Gagnon
Environmental Scientist II

21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | **C** 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
Sent: Wednesday, April 29, 2020 6:45 PM
To: Gagnon, Kristi <KGagnon@trccompanies.com>
Subject: [EXTERNAL] Phoenix Labs - GCF77596, CONN DOT RT 15 MERRITT - Report Ready

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Delivery group GCF77596 (CONN DOT RT 15 MERRITT) for the following samples:

CF77596 - SB-09
CF77597 - SB-10
CF77598 - SB-11
CF77599 - SB-12
CF77600 - SB-13
CF77601 - SB-14
CF77602 - SB-15
CF77603 - SB-11B

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
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Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc'd:KGagnon@trccompanies.com

PHOENIX
Environmental Laboratories, Inc.

Monday, May 04, 2020

Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: **CONN DOT RT 15 MERRITT PARKWY**
SDG ID: **GCF76722**
Sample ID#s: CF76722 - CF76736

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

May 04, 2020

SDG I.D.: GCF76722

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.

Version 2: Per client request SPLP Lead was added on.

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

Sample Id Cross Reference

May 04, 2020

SDG I.D.: GCF76722

Project ID: CONN DOT RT 15 MERRITT PARKWY

Client Id	Lab Id	Matrix
TB20200421 LL	CF76722	SOIL
FB20200421	CF76723	GROUND WATER
SB-16	CF76724	SOIL
SB-17	CF76725	SOIL
SB-18	CF76726	SOIL
SB-19	CF76727	SOIL
SB-20	CF76728	SOIL
SB-21	CF76729	SOIL
SB-22	CF76730	SOIL
SB-23	CF76731	SOIL
SB-24	CF76732	SOIL
SB-25	CF76733	SOIL
SB-26	CF76734	SOIL
SB-22B	CF76735	SOIL
TB20200421 HL	CF76736	SOIL

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	8:00
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76722

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: TB20200421 LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	04/21/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: TB20200421 LL

Phoenix I.D.: CF76722

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	0.25	mg/Kg	1	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Benzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromoform	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Bromomethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Chloroform	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Chloromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Naphthalene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
o-Xylene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Styrene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Toluene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.005	mg/Kg	1	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	04/21/20	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	04/21/20	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	93		%	1	04/21/20	JLI	70 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		04/21/20	8:20
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76723

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: FB20200421

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/22/20	CPP	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	04/22/20	CPP	SW6010D
Barium	< 0.002	0.002	mg/L	1	04/22/20	CPP	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	04/22/20	CPP	SW6010D
Chromium	< 0.001	0.001	mg/L	1	04/22/20	CPP	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	04/22/20	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	04/22/20	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	04/22/20	CPP	SW6010D
Extraction of CT ETPH	Completed				04/21/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				04/22/20	RA/RA	SW7470A
Extraction for Pest (LDL)	Completed				04/22/20		SW3510C
Semi-Volatile Extraction	Completed				04/21/20	P/AK	SW3520C
Total Metals Digestion	Completed				04/21/20	AG/BF	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	04/22/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/22/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	61		%	1	04/22/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
a-BHC	ND	0.025	ug/L	1	04/24/20	CG	SW8081B
Alachlor	ND	0.075	ug/L	1	04/24/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	04/24/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	04/24/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlordane	ND	0.30	ug/L	1	04/24/20	CG	SW8081B
d-BHC	ND	0.025	ug/L	1	04/24/20	CG	SW8081B
Dieldrin	ND	0.002	ug/L	1	04/24/20	CG	SW8081B
Endosulfan I	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
Endosulfan II	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
Endrin	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
Endrin Aldehyde	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
Endrin ketone	ND	0.050	ug/L	1	04/24/20	CG	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	04/24/20	CG	SW8081B
Heptachlor	ND	0.025	ug/L	1	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	04/24/20	CG	SW8081B
Methoxychlor	ND	0.10	ug/L	1	04/24/20	CG	SW8081B
Toxaphene	ND	1.0	ug/L	1	04/24/20	CG	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	65		%	1	04/24/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	55		%	1	04/24/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	67		%	1	04/24/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	56		%	1	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
1,2-Dibromoethane	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	04/22/20	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
Acetone	ND	25	ug/L	1	04/22/20	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
Benzene	ND	0.70	ug/L	1	04/22/20	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/22/20	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	04/22/20	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Styrene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/22/20	MH	SW8260C
Toluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/22/20	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/22/20	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	04/22/20	MH	70 - 130 %
% Dibromofluoromethane	109		%	1	04/22/20	MH	70 - 130 %
% Toluene-d8	94		%	1	04/22/20	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.49	ug/L	1	04/22/20	WB	SW8270D (SIM)

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: FB20200421

Phoenix I.D.: CF76723

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	0.49	ug/L	1	04/22/20	WB	SW8270D (SIM)
Acenaphthylene	ND	0.29	ug/L	1	04/22/20	WB	SW8270D (SIM)
Anthracene	ND	0.49	ug/L	1	04/22/20	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/22/20	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	04/22/20	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	04/22/20	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.47	ug/L	1	04/22/20	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.29	ug/L	1	04/22/20	WB	SW8270D (SIM)
Chrysene	ND	0.49	ug/L	1	04/22/20	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	04/22/20	WB	SW8270D (SIM)
Fluoranthene	ND	0.49	ug/L	1	04/22/20	WB	SW8270D (SIM)
Fluorene	ND	0.49	ug/L	1	04/22/20	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	04/22/20	WB	SW8270D (SIM)
Naphthalene	ND	0.49	ug/L	1	04/22/20	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	04/22/20	WB	SW8270D (SIM)
Pyrene	ND	0.49	ug/L	1	04/22/20	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	77		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	86		%	1	04/22/20	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:

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

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	13:25
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76724

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-16

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	3.43	0.74	mg/Kg	1	04/22/20	EK	SW6010D
Barium	61.1	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.73	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	32.9	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	69.6	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/22/20	EK	SW6010D
Percent Solid	87		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/ME	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/22/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/22/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	04/22/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.002	0.0015	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDE	0.017	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
4,4' -DDT	0.012	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/22/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/22/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/22/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/22/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/22/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/22/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/22/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/22/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	68		%	2	04/22/20	CG	30 - 150 %
% DCBP (Confirmation)	64		%	2	04/22/20	CG	30 - 150 %
% TCMX	62		%	2	04/22/20	CG	30 - 150 %
% TCMX (Confirmation)	64		%	2	04/22/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-16

Phoenix I.D.: CF76724

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.008	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.008	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.008	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.008	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.008	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	93		%	1	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-16

Phoenix I.D.: CF76724

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	84		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	13:35
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76725

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-17

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	5.13	0.77	mg/Kg	1	04/22/20	EK	SW6010D
Barium	40.8	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.85	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	32.8	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	58.3	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/22/20	EK	SW6010D
Percent Solid	88		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/ME	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/22/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/22/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	99		%	1	04/22/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0028	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0024	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.005	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	74		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	64		%	2	04/23/20	CG	30 - 150 %
% TCMX	65		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	67		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-17

Phoenix I.D.: CF76725

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0081	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0081	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
o-Xylene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
Styrene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.23	mg/Kg	50	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0081	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.45	mg/Kg	50	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0081	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.004	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/22/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	97		%	50	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-17

Phoenix I.D.: CF76725

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	98		%	50	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	96		%	50	04/22/20	JLI	70 - 130 %
% Toluene-d8 (50x)	93		%	50	04/22/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	95		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	96		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	13:50
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76726

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-18

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	3.18	0.77	mg/Kg	1	04/22/20	EK	SW6010D
Barium	52.9	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.86	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	29.8	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	17.4	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/22/20	EK	SW6010D
Percent Solid	89		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/ME	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	ND	0.002	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	66		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	58		%	2	04/23/20	CG	30 - 150 %
% TCMX	60		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	62		%	2	04/23/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0023	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.019	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.019	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.19	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-18

Phoenix I.D.: CF76726

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0023	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.023	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0075	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0075	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0075	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0075	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0075	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	89		%	1	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-18

Phoenix I.D.: CF76726

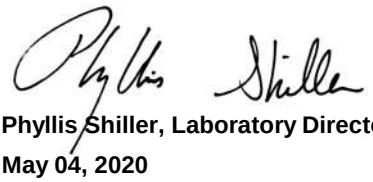
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	0.3	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	0.41	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	0.38	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	0.34	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	0.27	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	0.35	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	0.49	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.34	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	0.49	0.26	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	81		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	89		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	101		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	14:00
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76727

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-19

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	3.92	0.82	mg/Kg	1	04/22/20	EK	SW6010D
Barium	49.1	0.41	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.95	0.41	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	22.1	0.41	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	0.07	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	123	0.41	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/22/20	EK	SW6010D
Percent Solid	82		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/ME	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	61	mg/Kg	1	04/22/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/22/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	85		%	1	04/22/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.018	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.023	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.04	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.004	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0079	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.04	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	69		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	60		%	2	04/23/20	CG	30 - 150 %
% TCMX	58		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	58		%	2	04/23/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.021	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.021	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.21	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-19

Phoenix I.D.: CF76727

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0025	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0084	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0084	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0084	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0084	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0084	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0042	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	84		%	1	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	91		%	1	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-19

Phoenix I.D.: CF76727

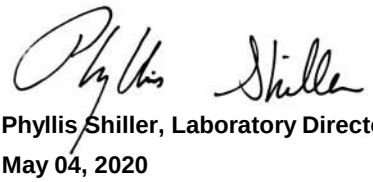
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	0.37	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	0.35	0.28	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	73		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	91		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	14:10
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76728

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-20

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	3.48	0.69	mg/Kg	1	04/22/20	EK	SW6010D
Barium	47.4	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.86	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	21.3	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	0.03	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	153	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/22/20	EK	SW6010D
Percent Solid	88		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	73	56	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	ND	0.003	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	67		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	04/23/20	CG	30 - 150 %
% TCMX	58		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	59		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-20

Phoenix I.D.: CF76728

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0078	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0078	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
Styrene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.29	mg/Kg	50	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0078	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.57	mg/Kg	50	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0078	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0039	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	75		%	1	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	86		%	1	04/22/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-20

Phoenix I.D.: CF76728

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	100		%	50	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	04/22/20	JLI	70 - 130 %
% Toluene-d8 (50x)	94		%	50	04/22/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluoranthene	0.31	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/21/20	WB	SW8270D
Pyrene	0.29	0.26	mg/Kg	1	04/21/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	52		%	1	04/21/20	WB	30 - 130 %
% Nitrobenzene-d5	48		%	1	04/21/20	WB	30 - 130 %
% Terphenyl-d14	69		%	1	04/21/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 2

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	14:20
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76729

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-21

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	3.96	0.80	mg/Kg	1	04/22/20	EK	SW6010D
Barium	83.8	0.40	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	1.35	0.40	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	31.6	0.40	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	0.06	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	918	4.0	mg/Kg	10	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/22/20	EK	SW6010D
SPLP Lead	0.216	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	81		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/ME	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	220	62	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	98		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.007	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0044	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.014	0.0082	mg/Kg	2	04/23/20	CG	SW8081B

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.041	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0041	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0082	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.041	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	59		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	51		%	2	04/23/20	CG	30 - 150 %
% TCMX	52		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	55		%	2	04/23/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0029	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.024	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-21

Phoenix I.D.: CF76729

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.24	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Benzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0029	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.029	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0095	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0095	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0095	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0095	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0095	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0048	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-21

Phoenix I.D.: CF76729

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	91		%	1	04/22/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	0.69	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	0.64	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	2.4	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	2.7	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	2.1	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	1.8	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	2.1	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	2.3	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	0.4	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	5.5	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	2	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	1.9	0.28	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	4.8	0.28	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	93		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	14:30
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76730

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-22

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	2.95	0.75	mg/Kg	1	04/22/20	EK	SW6010D
Barium	47.1	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.72	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	15.1	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	201	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/22/20	EK	SW6010D
SPLP Lead	0.165	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	90		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/ME	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	04/22/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/22/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	04/22/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0055	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.018	0.0073	mg/Kg	2	04/23/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	73		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	68		%	2	04/23/20	CG	30 - 150 %
% TCMX	63		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	64		%	2	04/23/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0026	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-22

Phoenix I.D.: CF76730

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Benzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0026	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.026	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0088	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0088	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0088	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0088	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0088	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0044	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	04/22/20	JLI	70 - 130 %

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/22/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	74		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	86		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	14:40
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76731

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-23

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	3.68	0.71	mg/Kg	1	04/22/20	EK	SW6010D
Barium	51.0	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.96	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	20.2	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	284	0.35	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/22/20	EK	SW6010D
SPLP Lead	0.061	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	84		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/ME	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	04/22/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/22/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	84		%	1	04/22/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0048	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.021	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.053	0.0078	mg/Kg	2	04/23/20	CG	SW8081B

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-23

Phoenix I.D.: CF76731

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	77		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	64		%	2	04/23/20	CG	30 - 150 %
% TCMX	65		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	68		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0023	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.019	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-23

Phoenix I.D.: CF76731

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.019	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.19	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Benzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0023	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.023	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0076	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0076	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0076	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0076	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0076	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0038	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	04/22/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-23

Phoenix I.D.: CF76731

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	91		%	1	04/22/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	0.44	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	0.53	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	0.51	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	0.43	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	0.43	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	0.53	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	1	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.46	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	0.48	0.27	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	0.96	0.27	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	70		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	83		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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.
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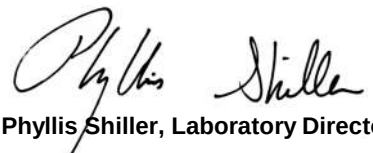

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
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Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	14:50
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76732

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-24

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	2.76	0.74	mg/Kg	1	04/22/20	EK	SW6010D
Barium	61.8	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.93	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	20.3	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	0.06	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	248	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/22/20	EK	SW6010D
SPLP Lead	0.165	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	86		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/ME	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	97	57	mg/Kg	1	04/22/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/22/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	85		%	1	04/22/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0025	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.011	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.025	0.0076	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	65		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	04/23/20	CG	30 - 150 %
% TCMX	58		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	60		%	2	04/23/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.019	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-24

Phoenix I.D.: CF76732

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.019	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.19	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Benzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	82		%	1	04/22/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-24

Phoenix I.D.: CF76732

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	89		%	1	04/22/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	0.58	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	0.76	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	0.67	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	0.65	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	0.58	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	0.71	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	1.3	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.64	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	0.49	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	1.2	0.26	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	97		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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:

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

Phyllis Shiller, Laboratory Director
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	15:00
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76733

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-25

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	2.66	0.74	mg/Kg	1	04/22/20	EK	SW6010D
Barium	47.9	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.70	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	15.9	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	56.1	0.37	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/22/20	EK	SW6010D
Percent Solid	88		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/21/20	BB/MA	SW3546
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/22/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/22/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	04/22/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0018	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.0027	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	59		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	54		%	2	04/23/20	CG	30 - 150 %
% TCMX	52		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-25

Phoenix I.D.: CF76733

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.007	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.007	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.007	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.007	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.007	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	91		%	1	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-25

Phoenix I.D.: CF76733

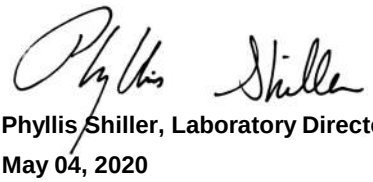
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	ND	0.26	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	66		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	95		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	15:10
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76734

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-26

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	3.86	0.75	mg/Kg	1	04/22/20	EK	SW6010D
Barium	57.1	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.76	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	14.5	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	160	0.38	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/22/20	EK	SW6010D
SPLP Lead	0.137	0.010	mg/L	1	05/04/20	EK	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	91		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/EE	SW3545A
Extraction of CT ETPH	Completed				04/22/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.022	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.019	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.012	0.0072	mg/Kg	2	04/23/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0072	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	64		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	04/23/20	CG	30 - 150 %
% TCMX	59		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	57		%	2	04/23/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-26

Phoenix I.D.: CF76734

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Benzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0074	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-26

Phoenix I.D.: CF76734

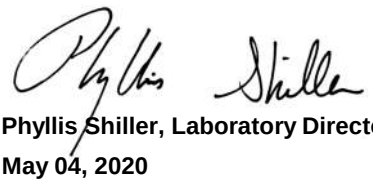
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/22/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	0.29	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	0.29	0.25	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	82		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	96		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	14:35
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76735

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-22B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/22/20	EK	SW6010D
Arsenic	3.54	0.78	mg/Kg	1	04/22/20	EK	SW6010D
Barium	49.1	0.39	mg/Kg	1	04/22/20	EK	SW6010D
Cadmium	0.75	0.39	mg/Kg	1	04/22/20	EK	SW6010D
Chromium	29.2	0.39	mg/Kg	1	04/22/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/22/20	RS	SW7471B
Lead	189	0.39	mg/Kg	1	04/22/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/22/20	EK	SW6010D
Percent Solid	92		%		04/21/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/21/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/21/20	KK/EE	SW3545A
Extraction of CT ETPH	Completed				04/21/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/22/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/21/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0032	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.01	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.035	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0035	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.035	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	67		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	62		%	2	04/23/20	CG	30 - 150 %
% TCMX	61		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	62		%	2	04/23/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/22/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-22B

Phoenix I.D.: CF76735

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0071	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.0035	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	04/22/20	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/22/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: SB-22B

Phoenix I.D.: CF76735

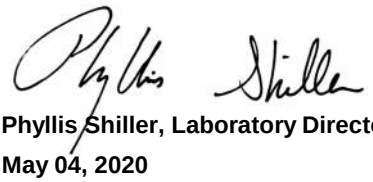
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benz(a)anthracene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(a)pyrene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Chrysene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Fluoranthene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
Pyrene	ND	0.25	mg/Kg	1	04/22/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	04/22/20	WB	30 - 130 %
% Nitrobenzene-d5	73		%	1	04/22/20	WB	30 - 130 %
% Terphenyl-d14	94		%	1	04/22/20	WB	30 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 04, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/21/20	8:00
Location Code:	TRC-NONDAS	Received by:	B	04/21/20	16:33
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF76722
Phoenix ID: CF76736

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: TB20200421 HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.14	mg/Kg	50	04/21/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
2-Chlorotoluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
2-Hexanone	ND	0.7	mg/Kg	50	04/21/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
4-Chlorotoluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	1.3	mg/Kg	50	04/21/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: TB20200421 HL

Phoenix I.D.: CF76736

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5	mg/Kg	50	04/21/20	JLI	SW8260C
Acrylonitrile	ND	0.025	mg/Kg	50	04/21/20	JLI	SW8260C
Benzene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Bromobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Bromochloromethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Bromodichloromethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Bromoform	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Bromomethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Carbon Disulfide	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Carbon tetrachloride	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Chlorobenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Chloroethane	ND	0.15	mg/Kg	50	04/21/20	JLI	SW8260C
Chloroform	ND	0.12	mg/Kg	50	04/21/20	JLI	SW8260C
Chloromethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Dibromochloromethane	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Dibromomethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Ethylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/21/20	JLI	SW8260C
Isopropylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
m&p-Xylene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	3	mg/Kg	50	04/21/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Methylene chloride	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Naphthalene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
n-Butylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
n-Propylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
o-Xylene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
sec-Butylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Styrene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
tert-Butylbenzene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Tetrachloroethene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Toluene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Total Xylenes	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.5	mg/Kg	50	04/21/20	JLI	SW8260C
Trichloroethene	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.25	mg/Kg	50	04/21/20	JLI	SW8260C
Vinyl chloride	ND	0.1	mg/Kg	50	04/21/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	04/21/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	98		%	50	04/21/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	96		%	50	04/21/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWY
Client ID: TB20200421 HL

Phoenix I.D.: CF76736

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (50x)	94		%	50	04/21/20	JLI	70 - 130 %
Field Extraction	Completed				04/21/20		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
May 04, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

QA/QC Report

May 04, 2020

QA/QC Data

SDG I.D.: GCF76722

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 527224 (mg/kg), QC Sample No: CF76082 2X (CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733)														
Mercury - Soil	BRL	0.03	0.04	0.03	NC	98.8	91.7	7.5	>125	103	NC	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 527227 (mg/L), QC Sample No: CF76477 (CF76723)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	110			99.3			80 - 120	20	
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 527225 (mg/kg), QC Sample No: CF76569 2X (CF76734, CF76735)														
Mercury - Soil	BRL	0.03	0.48	0.68	34.5	91.1	92.4	1.4	111	>125	NC	70 - 130	30	m,r
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 527150 (mg/L), QC Sample No: CF75600 (CF76723)														
ICP Metals - Aqueous														
Arsenic	BRL	0.004	<0.004	<0.004	NC	97.4	97.1	0.3	104			80 - 120	20	
Barium	BRL	0.002	0.123	0.120	2.50	103	103	0.0	105			80 - 120	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	99.6	97.8	1.8	97.1			80 - 120	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	101	101	0.0	101			80 - 120	20	
Lead	BRL	0.002	<0.002	<0.002	NC	95.3	94.6	0.7	91.9			80 - 120	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	97.5	96.8	0.7	99.5			80 - 120	20	
Silver	BRL	0.001	<0.001	<0.001	NC	98.7	99.0	0.3	107			80 - 120	20	
Comment: Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 528524 (mg/L), QC Sample No: CF75985 (CF76729, CF76730, CF76731, CF76732, CF76734)														
ICP Metals - SPLP Extraction														
Lead	BRL	0.010	0.037	0.038	NC	103	101	2.0	101			80 - 120	20	
Comment: Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 527167 (mg/kg), QC Sample No: CF76556 (CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735)														
ICP Metals - Soil														
Arsenic	BRL	0.67	1.18	1.26	NC	100	106	5.8	99.4			75 - 125	35	
Barium	BRL	0.33	59.6	55.2	7.70	99.9	105	5.0	108			75 - 125	35	
Cadmium	BRL	0.33	0.66	0.68	NC	95.7	99.7	4.1	104			75 - 125	35	
Chromium	BRL	0.33	14.1	14.5	2.80	98.4	102	3.6	102			75 - 125	35	
Lead	BRL	0.33	5.76	4.80	18.2	97.9	103	5.1	93.2			75 - 125	35	
Selenium	BRL	1.3	<1.4	<1.7	NC	94.6	99.5	5.0	96.1			75 - 125	35	
Silver	BRL	0.33	<0.35	<0.42	NC	93.9	99.3	5.6	96.5			75 - 125	35	
Comment: Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														

QA/QC Data

SDG I.D.: GCF76722

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

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

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QA/QC Report

May 04, 2020

QA/QC Data

SDG I.D.: GCF76722

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 527155 (mg/L), QC Sample No: CF74301 (CF76723)											
TPH by GC (Extractable Products) - Ground Water											
Ext. Petroleum H.C. (C9-C36)	ND	0.10	95	95	0.0				60 - 120	30	
% n-Pentacosane	54	%	64	66	3.1				50 - 150	20	
Comment: Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 527157 (mg/Kg), QC Sample No: CF76263 (CF76735)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	87	88	1.1	91	63	36.4	60 - 120	30	r
% n-Pentacosane	60	%	77	74	4.0	79	54	37.6	50 - 150	30	r
Comment: Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 527271 (mg/Kg), QC Sample No: CF76587 (CF76734)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	81	80	1.2	105	120	13.3	60 - 120	30	
% n-Pentacosane	44	%	77	73	5.3	96	109	12.7	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 527180 (mg/Kg), QC Sample No: CF76727 (CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	121	99	20.0	117	90	26.1	60 - 120	30	l
% n-Pentacosane	102	%	86	83	3.6	102	77	27.9	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 527298 (ug/L), QC Sample No: CF76498 (CF76723)											
Pesticides - Ground Water											
4,4' -DDD	ND	0.003	94	116	21.0				40 - 140	20	r
4,4' -DDE	ND	0.003	105	115	9.1				40 - 140	20	
4,4' -DDT	ND	0.003	125	128	2.4				40 - 140	20	
a-BHC	ND	0.002	71	81	13.2				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	92	99	7.3				40 - 140	20	
b-BHC	ND	0.002	108	117	8.0				40 - 140	20	
Chlordane	ND	0.050	95	103	8.1				40 - 140	20	
d-BHC	ND	0.005	74	67	9.9				40 - 140	20	
Dieldrin	ND	0.002	122	125	2.4				40 - 140	20	

QA/QC Data

SDG I.D.: GCF76722

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Endosulfan I	ND	0.005	105	115	9.1				40 - 140	20	
Endosulfan II	ND	0.005	110	120	8.7				40 - 140	20	
Endosulfan sulfate	ND	0.005	118	124	5.0				40 - 140	20	
Endrin	ND	0.005	116	120	3.4				40 - 140	20	
Endrin aldehyde	ND	0.005	108	120	10.5				40 - 140	20	
Endrin ketone	ND	0.005	116	125	7.5				40 - 140	20	
g-BHC	ND	0.002	92	99	7.3				40 - 140	20	
Heptachlor	ND	0.005	89	98	9.6				40 - 140	20	
Heptachlor epoxide	ND	0.005	86	96	11.0				40 - 140	20	
Methoxychlor	ND	0.005	125	132	5.4				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	84	%	NR	NR	NC				30 - 150	20	
% DCBP (Confirmation)	92	%	NR	NR	NC				30 - 150	20	
% TCMX	78	%	NR	NR	NC				30 - 150	20	
% TCMX (Confirmation)	78	%	NR	NR	NC				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD.Gamma chlordane recovery is reported as chlordane in the LCS and LCSD.
NR - surrogates were not spiked and are not reported.

QA/QC Batch 527175 (mg/Kg), QC Sample No: CF76730 2X (CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735)

Pesticides - Soil

4,4' -DDD	ND	0.0017	89	61	37.3	55	46	17.8	40 - 140	30	r
4,4' -DDE	ND	0.0017	74	61	19.3	63	55	13.6	40 - 140	30	
4,4' -DDT	ND	0.0017	76	59	25.2	83	75	10.1	40 - 140	30	
a-BHC	ND	0.001	75	61	20.6	52	47	10.1	40 - 140	30	
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	0.001	75	58	25.6	51	45	12.5	40 - 140	30	
b-BHC	ND	0.001	79	62	24.1	56	48	15.4	40 - 140	30	
Chlordane	ND	0.033	78	61	24.5	55	48	13.6	40 - 140	30	
d-BHC	ND	0.0033	73	58	22.9	49	43	13.0	40 - 140	30	
Dieldrin	ND	0.001	78	61	24.5	54	48	11.8	40 - 140	30	
Endosulfan I	ND	0.0033	76	58	26.9	50	44	12.8	40 - 140	30	
Endosulfan II	ND	0.0033	79	59	29.0	54	47	13.9	40 - 140	30	
Endosulfan sulfate	ND	0.0033	86	69	21.9	60	52	14.3	40 - 140	30	
Endrin	ND	0.0033	76	59	25.2	54	46	16.0	40 - 140	30	
Endrin aldehyde	ND	0.0033	68	53	24.8	51	44	14.7	40 - 140	30	
Endrin ketone	ND	0.0033	74	58	24.2	53	47	12.0	40 - 140	30	
g-BHC	ND	0.001	93	75	21.4	64	56	13.3	40 - 140	30	
Heptachlor	ND	0.0033	75	59	23.9	52	46	12.2	40 - 140	30	
Heptachlor epoxide	ND	0.0033	75	59	23.9	54	47	13.9	40 - 140	30	
Methoxychlor	ND	0.0033	82	65	23.1	62	54	13.8	40 - 140	30	
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	69	%	77	62	21.6	56	49	13.3	30 - 150	30	
% DCBP (Confirmation)	69	%	75	60	22.2	55	49	11.5	30 - 150	30	
% TCMX	60	%	65	52	22.2	44	44	0.0	30 - 150	30	
% TCMX (Confirmation)	60	%	65	52	22.2	47	43	8.9	30 - 150	30	

QA/QC Batch 527168 (mg/Kg), QC Sample No: CF76728 (CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	0.23	69	60	14.0	81	74	9.0	40 - 140	30
Acenaphthene	ND	0.23	69	67	2.9	72	74	2.7	30 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Acenaphthylene	ND	0.23	68	63	7.6	69	73	5.6	40 - 140	30
Anthracene	ND	0.23	66	73	10.1	72	75	4.1	40 - 140	30
Benz(a)anthracene	ND	0.23	77	78	1.3	71	76	6.8	40 - 140	30
Benzo(a)pyrene	ND	0.23	76	84	10.0	76	81	6.4	40 - 140	30
Benzo(b)fluoranthene	ND	0.23	95	100	5.1	86	97	12.0	40 - 140	30
Benzo(ghi)perylene	ND	0.23	83	89	7.0	76	79	3.9	40 - 140	30
Benzo(k)fluoranthene	ND	0.23	61	57	6.8	53	55	3.7	40 - 140	30
Chrysene	ND	0.23	76	77	1.3	73	75	2.7	40 - 140	30
Dibenz(a,h)anthracene	ND	0.23	82	85	3.6	77	84	8.7	40 - 140	30
Fluoranthene	ND	0.23	72	77	6.7	70	76	8.2	40 - 140	30
Fluorene	ND	0.23	72	70	2.8	73	78	6.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	0.23	86	89	3.4	77	85	9.9	40 - 140	30
Naphthalene	ND	0.23	60	55	8.7	74	66	11.4	40 - 140	30
Phenanthrene	ND	0.23	69	73	5.6	69	73	5.6	40 - 140	30
Pyrene	ND	0.23	75	80	6.5	76	81	6.4	30 - 130	30
% 2-Fluorobiphenyl	63	%	61	57	6.8	61	66	7.9	30 - 130	30
% Nitrobenzene-d5	61	%	60	48	22.2	65	76	15.6	30 - 130	30
% Terphenyl-d14	83	%	78	86	9.8	74	83	11.5	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527154 (ug/L), QC Sample No: CF74932 (CF76723)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	50	46	8.3				30 - 130	20
Acenaphthene	ND	0.50	56	53	5.5				30 - 130	20
Acenaphthylene	ND	0.10	58	54	7.1				30 - 130	20
Anthracene	ND	0.10	59	59	0.0				30 - 130	20
Benz(a)anthracene	ND	0.05	65	68	4.5				30 - 130	20
Benzo(a)pyrene	ND	0.20	62	66	6.3				30 - 130	20
Benzo(b)fluoranthene	ND	0.07	76	81	6.4				30 - 130	20
Benzo(ghi)perylene	ND	0.02	53	57	7.3				30 - 130	20
Benzo(k)fluoranthene	ND	0.10	44	46	4.4				30 - 130	20
Chrysene	ND	0.05	51	54	5.7				30 - 130	20
Dibenz(a,h)anthracene	ND	0.02	63	70	10.5				30 - 130	20
Fluoranthene	ND	0.50	60	60	0.0				30 - 130	20
Fluorene	ND	0.10	60	58	3.4				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.10	60	65	8.0				30 - 130	20
Naphthalene	ND	0.50	43	38	12.3				30 - 130	20
Phenanthrene	ND	0.06	61	60	1.7				30 - 130	20
Pyrene	ND	0.07	63	62	1.6				30 - 130	20
% 2-Fluorobiphenyl	53	%	54	49	9.7				30 - 130	20
% Nitrobenzene-d5	48	%	46	38	19.0				30 - 130	20
% Terphenyl-d14	58	%	58	58	0.0				30 - 130	20

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527273 (mg/Kg), QC Sample No: CF76082 (CF76722, CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	105	103	1.9	91	94	3.2	70 - 130	30
1,1,1-Trichloroethane	ND	0.005	101	97	4.0	97	98	1.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	104	102	1.9	102	108	5.7	70 - 130	30

QA/QC Data

SDG I.D.: GCF76722

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,2-Trichloroethane	ND	0.005	101	100	1.0	90	88	2.2	70 - 130	30	
1,1-Dichloroethane	ND	0.005	97	97	0.0	96	96	0.0	70 - 130	30	
1,1-Dichloroethene	ND	0.005	105	103	1.9	99	99	0.0	70 - 130	30	
1,1-Dichloropropene	ND	0.005	99	98	1.0	91	93	2.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	97	97	0.0	40	36	10.5	70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005	93	92	1.1	100	104	3.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	92	92	0.0	45	43	4.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001	97	96	1.0	42	44	4.7	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	0.005	116	114	1.7	91	91	0.0	70 - 130	30	
1,2-Dibromoethane	ND	0.005	103	99	4.0	90	91	1.1	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	97	97	0.0	57	58	1.7	70 - 130	30	m
1,2-Dichloroethane	ND	0.005	101	99	2.0	94	93	1.1	70 - 130	30	
1,2-Dichloropropane	ND	0.005	103	102	1.0	96	97	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	97	97	0.0	60	63	4.9	70 - 130	30	m
1,3-Dichlorobenzene	ND	0.005	94	94	0.0	79	81	2.5	70 - 130	30	
1,3-Dichloropropane	ND	0.005	101	98	3.0	93	94	1.1	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	93	94	1.1	78	81	3.8	70 - 130	30	
2,2-Dichloropropane	ND	0.005	102	102	0.0	96	95	1.0	70 - 130	30	
2-Chlorotoluene	ND	0.005	98	98	0.0	75	80	6.5	70 - 130	30	
2-Hexanone	ND	0.025	91	86	5.6	58	56	3.5	70 - 130	30	m
2-Isopropyltoluene	ND	0.005	97	97	0.0	74	77	4.0	70 - 130	30	
4-Chlorotoluene	ND	0.005	93	95	2.1	82	87	5.9	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	96	91	5.3	75	72	4.1	70 - 130	30	
Acetone	ND	0.01	77	69	11.0	61	54	12.2	70 - 130	30	l,m
Acrylonitrile	ND	0.005	99	95	4.1	88	85	3.5	70 - 130	30	
Benzene	ND	0.001	102	102	0.0	93	94	1.1	70 - 130	30	
Bromobenzene	ND	0.005	100	100	0.0	92	98	6.3	70 - 130	30	
Bromochloromethane	ND	0.005	102	99	3.0	95	95	0.0	70 - 130	30	
Bromodichloromethane	ND	0.005	107	106	0.9	95	94	1.1	70 - 130	30	
Bromoform	ND	0.005	106	103	2.9	84	83	1.2	70 - 130	30	
Bromomethane	ND	0.005	112	111	0.9	106	109	2.8	70 - 130	30	
Carbon Disulfide	ND	0.005	98	95	3.1	81	81	0.0	70 - 130	30	
Carbon tetrachloride	ND	0.005	103	101	2.0	94	97	3.1	70 - 130	30	
Chlorobenzene	ND	0.005	99	98	1.0	86	88	2.3	70 - 130	30	
Chloroethane	ND	0.005	95	95	0.0	92	93	1.1	70 - 130	30	
Chloroform	ND	0.005	97	96	1.0	93	93	0.0	70 - 130	30	
Chloromethane	ND	0.005	112	109	2.7	101	102	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	95	97	2.1	93	93	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	105	104	1.0	86	86	0.0	70 - 130	30	
Dibromochloromethane	ND	0.003	110	108	1.8	93	97	4.2	70 - 130	30	
Dibromomethane	ND	0.005	103	101	2.0	89	90	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	137	135	1.5	117	122	4.2	70 - 130	30	l
Ethylbenzene	ND	0.001	102	99	3.0	79	82	3.7	70 - 130	30	
Hexachlorobutadiene	ND	0.005	96	98	2.1	44	48	8.7	70 - 130	30	m
Isopropylbenzene	ND	0.001	98	100	2.0	81	85	4.8	70 - 130	30	
m&p-Xylene	ND	0.002	98	97	1.0	63	63	0.0	70 - 130	30	m
Methyl ethyl ketone	ND	0.005	82	82	0.0	70	69	1.4	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	0.001	95	93	2.1	91	90	1.1	70 - 130	30	
Methylene chloride	ND	0.005	94	93	1.1	98	90	8.5	70 - 130	30	
Naphthalene	ND	0.005	104	104	0.0	<10	<10	NC	70 - 130	30	m
n-Butylbenzene	ND	0.001	99	99	0.0	49	50	2.0	70 - 130	30	m
n-Propylbenzene	ND	0.001	98	98	0.0	77	82	6.3	70 - 130	30	
o-Xylene	ND	0.002	102	102	0.0	66	67	1.5	70 - 130	30	m

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
p-Isopropyltoluene	ND	0.001	99	99	0.0	72	76	5.4	70 - 130	30	
sec-Butylbenzene	ND	0.001	103	104	1.0	69	74	7.0	70 - 130	30	m
Styrene	ND	0.005	102	99	3.0	53	53	0.0	70 - 130	30	m
tert-Butylbenzene	ND	0.001	99	99	0.0	84	89	5.8	70 - 130	30	
Tetrachloroethene	ND	0.005	99	100	1.0	87	89	2.3	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	96	90	6.5	90	88	2.2	70 - 130	30	
Toluene	ND	0.001	104	103	1.0	87	87	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	95	103	8.1	102	103	1.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	106	105	0.9	82	82	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	113	109	3.6	93	95	2.1	70 - 130	30	
Trichloroethene	ND	0.005	100	100	0.0	91	93	2.2	70 - 130	30	
Trichlorofluoromethane	ND	0.005	105	105	0.0	103	106	2.9	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	101	101	0.0	95	100	5.1	70 - 130	30	
Vinyl chloride	ND	0.005	116	114	1.7	106	106	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	%	102	102	0.0	99	98	1.0	70 - 130	30	
% Bromofluorobenzene	98	%	101	100	1.0	93	92	1.1	70 - 130	30	
% Dibromofluoromethane	98	%	96	97	1.0	97	97	0.0	70 - 130	30	
% Toluene-d8	93	%	101	101	0.0	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%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 527273H (mg/Kg), QC Sample No: CF76082 50X (CF76736 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	0.25	103	103	0.0	100	102	2.0	70 - 130	30	
1,1,1-Trichloroethane	ND	0.25	99	100	1.0	99	103	4.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.25	103	104	1.0	103	101	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	0.25	101	101	0.0	100	100	0.0	70 - 130	30	
1,1-Dichloroethane	ND	0.25	98	99	1.0	96	100	4.1	70 - 130	30	
1,1-Dichloroethene	ND	0.25	97	97	0.0	100	106	5.8	70 - 130	30	
1,1-Dichloropropene	ND	0.25	103	103	0.0	104	105	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.25	120	119	0.8	114	114	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	0.25	92	91	1.1	92	91	1.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.25	118	115	2.6	110	112	1.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.25	105	104	1.0	103	104	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.25	106	109	2.8	110	109	0.9	70 - 130	30	
1,2-Dibromoethane	ND	0.25	101	101	0.0	102	101	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	0.25	105	104	1.0	104	104	0.0	70 - 130	30	
1,2-Dichloroethane	ND	0.25	101	102	1.0	103	103	0.0	70 - 130	30	
1,2-Dichloropropane	ND	0.25	105	104	1.0	103	104	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.25	104	102	1.9	103	104	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	0.25	104	103	1.0	102	101	1.0	70 - 130	30	
1,3-Dichloropropane	ND	0.25	100	100	0.0	99	100	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	0.25	103	102	1.0	101	102	1.0	70 - 130	30	
2,2-Dichloropropane	ND	0.25	100	100	0.0	94	100	6.2	70 - 130	30	
2-Chlorotoluene	ND	0.25	105	105	0.0	105	105	0.0	70 - 130	30	
2-Hexanone	ND	1.3	82	84	2.4	85	82	3.6	70 - 130	30	
2-Isopropyltoluene	ND	0.25	104	103	1.0	103	103	0.0	70 - 130	30	
4-Chlorotoluene	ND	0.25	102	102	0.0	101	101	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	1.3	89	91	2.2	92	89	3.3	70 - 130	30	
Acetone	ND	0.5	53	53	0.0	44	50	12.8	70 - 130	30	l,m
Acrylonitrile	ND	0.25	101	103	2.0	105	107	1.9	70 - 130	30	
Benzene	ND	0.25	106	106	0.0	105	106	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GCF76722

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromobenzene	ND	0.25	105	105	0.0	104	104	0.0	70 - 130	30	
Bromochloromethane	ND	0.25	101	103	2.0	100	104	3.9	70 - 130	30	
Bromodichloromethane	ND	0.25	106	103	2.9	102	103	1.0	70 - 130	30	
Bromoform	ND	0.25	96	94	2.1	93	93	0.0	70 - 130	30	
Bromomethane	ND	0.25	81	82	1.2	80	86	7.2	70 - 130	30	
Carbon Disulfide	ND	0.25	90	89	1.1	91	97	6.4	70 - 130	30	
Carbon tetrachloride	ND	0.25	99	97	2.0	95	99	4.1	70 - 130	30	
Chlorobenzene	ND	0.25	103	103	0.0	104	105	1.0	70 - 130	30	
Chloroethane	ND	0.25	34	34	0.0	36	39	8.0	70 - 130	30	l,m
Chloroform	ND	0.25	98	97	1.0	96	99	3.1	70 - 130	30	
Chloromethane	ND	0.25	113	113	0.0	114	116	1.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.25	99	96	3.1	95	101	6.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.25	105	104	1.0	99	100	1.0	70 - 130	30	
Dibromochloromethane	ND	0.15	106	104	1.9	101	102	1.0	70 - 130	30	
Dibromomethane	ND	0.25	102	103	1.0	103	101	2.0	70 - 130	30	
Dichlorodifluoromethane	ND	0.25	138	137	0.7	134	140	4.4	70 - 130	30	l,m
Ethylbenzene	ND	0.25	106	105	0.9	107	107	0.0	70 - 130	30	
Hexachlorobutadiene	ND	0.25	111	111	0.0	111	112	0.9	70 - 130	30	
Isopropylbenzene	ND	0.25	102	103	1.0	104	104	0.0	70 - 130	30	
m&p-Xylene	ND	0.25	103	103	0.0	103	103	0.0	70 - 130	30	
Methyl ethyl ketone	ND	0.25	84	86	2.4	85	82	3.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.25	91	93	2.2	89	89	0.0	70 - 130	30	
Methylene chloride	ND	0.25	95	97	2.1	93	96	3.2	70 - 130	30	
Naphthalene	ND	0.25	116	115	0.9	113	114	0.9	70 - 130	30	
n-Butylbenzene	ND	0.25	112	111	0.9	109	110	0.9	70 - 130	30	
n-Propylbenzene	ND	0.25	103	103	0.0	103	106	2.9	70 - 130	30	
o-Xylene	ND	0.25	107	108	0.9	107	107	0.0	70 - 130	30	
p-Isopropyltoluene	ND	0.25	108	108	0.0	107	108	0.9	70 - 130	30	
sec-Butylbenzene	ND	0.25	111	110	0.9	111	111	0.0	70 - 130	30	
Styrene	ND	0.25	105	105	0.0	104	106	1.9	70 - 130	30	
tert-Butylbenzene	ND	0.25	103	103	0.0	104	104	0.0	70 - 130	30	
Tetrachloroethene	ND	0.25	107	107	0.0	107	108	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.25	94	97	3.1	94	92	2.2	70 - 130	30	
Toluene	ND	0.25	109	109	0.0	108	110	1.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.25	113	112	0.9	85	88	3.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.25	105	105	0.0	97	99	2.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.25	106	106	0.0	97	96	1.0	70 - 130	30	
Trichloroethene	ND	0.25	103	101	2.0	104	104	0.0	70 - 130	30	
Trichlorofluoromethane	ND	0.25	43	42	2.4	47	52	10.1	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	0.25	98	97	1.0	102	108	5.7	70 - 130	30	
Vinyl chloride	ND	0.25	113	115	1.8	113	119	5.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	102	102	0.0	103	101	2.0	70 - 130	30	
% Bromofluorobenzene	99	%	101	102	1.0	100	101	1.0	70 - 130	30	
% Dibromofluoromethane	96	%	97	97	0.0	97	93	4.2	70 - 130	30	
% Toluene-d8	95	%	102	102	0.0	102	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 527429 (ug/L), QC Sample No: CF76723 (CF76723)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	93	99	6.3				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	92	95	3.2				70 - 130	30	

QA/QC Data

SDG I.D.: GCF76722

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,2,2-Tetrachloroethane	ND	0.50	91	100	9.4				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	88	95	7.7				70 - 130	30
1,1-Dichloroethane	ND	1.0	99	102	3.0				70 - 130	30
1,1-Dichloroethene	ND	1.0	94	99	5.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	89	92	3.3				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	92	103	11.3				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	91	100	9.4				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	95	106	10.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	95	99	4.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	90	102	12.5				70 - 130	30
1,2-Dibromoethane	ND	1.0	89	98	9.6				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	95	102	7.1				70 - 130	30
1,2-Dichloroethane	ND	1.0	88	97	9.7				70 - 130	30
1,2-Dichloropropane	ND	1.0	90	98	8.5				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	95	99	4.1				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	94	99	5.2				70 - 130	30
1,3-Dichloropropane	ND	1.0	89	96	7.6				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	95	99	4.1				70 - 130	30
2,2-Dichloropropane	ND	1.0	98	101	3.0				70 - 130	30
2-Chlorotoluene	ND	1.0	95	98	3.1				70 - 130	30
2-Hexanone	ND	5.0	85	97	13.2				70 - 130	30
2-Isopropyltoluene	ND	1.0	100	102	2.0				70 - 130	30
4-Chlorotoluene	ND	1.0	93	96	3.2				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	92	102	10.3				70 - 130	30
Acetone	ND	5.0	89	95	6.5				70 - 130	30
Acrylonitrile	ND	5.0	89	99	10.6				70 - 130	30
Benzene	ND	0.70	94	99	5.2				70 - 130	30
Bromobenzene	ND	1.0	95	100	5.1				70 - 130	30
Bromochloromethane	ND	1.0	97	106	8.9				70 - 130	30
Bromodichloromethane	ND	0.50	91	101	10.4				70 - 130	30
Bromoform	ND	1.0	87	95	8.8				70 - 130	30
Bromomethane	ND	1.0	110	131	17.4				70 - 130	30
Carbon Disulfide	ND	1.0	95	97	2.1				70 - 130	30
Carbon tetrachloride	ND	1.0	92	97	5.3				70 - 130	30
Chlorobenzene	ND	1.0	95	99	4.1				70 - 130	30
Chloroethane	ND	1.0	100	104	3.9				70 - 130	30
Chloroform	ND	1.0	97	102	5.0				70 - 130	30
Chloromethane	ND	1.0	110	113	2.7				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	102	106	3.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	89	97	8.6				70 - 130	30
Dibromochloromethane	ND	0.50	92	100	8.3				70 - 130	30
Dibromomethane	ND	1.0	88	96	8.7				70 - 130	30
Dichlorodifluoromethane	ND	1.0	111	118	6.1				70 - 130	30
Ethylbenzene	ND	1.0	97	99	2.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	101	100	1.0				70 - 130	30
Isopropylbenzene	ND	1.0	93	95	2.1				70 - 130	30
m&p-Xylene	ND	1.0	95	96	1.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	119	103	14.4				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	85	95	11.1				70 - 130	30
Methylene chloride	ND	1.0	93	100	7.3				70 - 130	30
Naphthalene	ND	1.0	95	106	10.9				70 - 130	30
n-Butylbenzene	ND	1.0	97	100	3.0				70 - 130	30
n-Propylbenzene	ND	1.0	95	96	1.0				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
o-Xylene	ND	1.0	95	98	3.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	97	100	3.0				70 - 130	30
sec-Butylbenzene	ND	1.0	95	98	3.1				70 - 130	30
Styrene	ND	1.0	94	98	4.2				70 - 130	30
tert-Butylbenzene	ND	1.0	92	93	1.1				70 - 130	30
Tetrachloroethene	ND	1.0	87	91	4.5				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	96	103	7.0				70 - 130	30
Toluene	ND	1.0	96	100	4.1				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	100	103	3.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	87	94	7.7				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	86	95	9.9				70 - 130	30
Trichloroethene	ND	1.0	89	90	1.1				70 - 130	30
Trichlorofluoromethane	ND	1.0	90	95	5.4				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	84	90	6.9				70 - 130	30
Vinyl chloride	ND	1.0	108	111	2.7				70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	100	102	2.0				70 - 130	30
% Bromofluorobenzene	98	%	97	98	1.0				70 - 130	30
% Dibromofluoromethane	109	%	105	105	0.0				70 - 130	30
% Toluene-d8	92	%	101	101	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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

QA/QC Batch 527432H (mg/Kg), QC Sample No: CF76725 50X (CF76725 (50X) , CF76728 (50X))

Volatiles - Soil (High Level)

1,2,3-Trichlorobenzene	ND	0.25	126	123	2.4	108	106	1.9	70 - 130	30
1,2,3-Trichloropropane	ND	0.25	93	94	1.1	88	87	1.1	70 - 130	30
1,2,4-Trichlorobenzene	ND	0.25	125	123	1.6	105	103	1.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	0.25	107	106	0.9	99	95	4.1	70 - 130	30
1,2-Dichlorobenzene	ND	0.25	108	107	0.9	98	95	3.1	70 - 130	30
1,3,5-Trimethylbenzene	ND	0.25	106	106	0.0	99	95	4.1	70 - 130	30
1,3-Dichlorobenzene	ND	0.25	107	107	0.0	97	93	4.2	70 - 130	30
1,4-Dichlorobenzene	ND	0.25	108	106	1.9	96	93	3.2	70 - 130	30
2-Chlorotoluene	ND	0.25	107	108	0.9	99	95	4.1	70 - 130	30
2-Isopropyltoluene	ND	0.25	112	112	0.0	104	99	4.9	70 - 130	30
4-Chlorotoluene	ND	0.25	106	105	0.9	98	93	5.2	70 - 130	30
Bromobenzene	ND	0.25	107	106	0.9	98	95	3.1	70 - 130	30
Hexachlorobutadiene	ND	0.25	118	116	1.7	103	99	4.0	70 - 130	30
Isopropylbenzene	ND	0.25	107	107	0.0	99	94	5.2	70 - 130	30
Naphthalene	ND	0.25	119	119	0.0	111	108	2.7	70 - 130	30
n-Butylbenzene	ND	0.25	116	117	0.9	105	101	3.9	70 - 130	30
n-Propylbenzene	ND	0.25	108	108	0.0	99	96	3.1	70 - 130	30
p-Isopropyltoluene	ND	0.25	112	112	0.0	102	98	4.0	70 - 130	30
sec-Butylbenzene	ND	0.25	113	114	0.9	106	101	4.8	70 - 130	30
tert-Butylbenzene	ND	0.25	106	106	0.0	98	95	3.1	70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.25	116	115	0.9	97	98	1.0	70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	102	102	0.0	102	101	1.0	70 - 130	30
% Bromofluorobenzene	97	%	101	101	0.0	100	99	1.0	70 - 130	30
% Dibromofluoromethane	95	%	94	96	2.1	95	94	1.1	70 - 130	30
% Toluene-d8	93	%	102	103	1.0	103	102	1.0	70 - 130	30

QA/QC Data

SDG I.D.: GCF76722

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

Comment:

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

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

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

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

Phyllis Shiller, Laboratory Director
May 04, 2020

Monday, May 04, 2020

Criteria: CT: GAM, GBM, GWP, I/C, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCF76722 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF76723	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CF76723	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CF76724	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	17	7.5	3	3	ug/Kg
CF76724	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	12	7.5	3	3	ug/Kg
CF76725	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	5.0	1.5	3	3	ug/Kg
CF76727	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	18	7.9	3	3	ug/Kg
CF76727	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	23	7.9	3	3	ug/Kg
CF76727	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	23	7.9	20	20	ug/Kg
CF76729	$8100SMR	Benzo(a)pyrene	CT / RSR DEC I/C (mg/kg) / Semivolatiles	2700	280	1000	1000	ug/Kg
CF76729	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	2000	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2700	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2100	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	2400	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1800	280	1000	1000	ug/Kg
CF76729	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	2300	280	1000	1000	ug/Kg
CF76729	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	2000	280	1000	1000	ug/Kg
CF76729	$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4800	280	4000	4000	ug/Kg
CF76729	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2100	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2100	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2400	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	2700	280	1000	1000	ug/Kg
CF76729	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	2000	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1800	280	1000	1000	ug/Kg
CF76729	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	2300	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	2700	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	2400	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2100	280	1000	1000	ug/Kg
CF76729	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	2100	280	1000	1000	ug/Kg
CF76729	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	14	8.2	3	3	ug/Kg
CF76729	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	4.4	1.6	3	3	ug/Kg
CF76729	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	7.0	1.6	3	3	ug/Kg
CF76729	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	918	4.0	400	400	mg/Kg
CF76729	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.216	0.010	0.015	0.015	mg/L
CF76729	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.216	0.010	0.15	0.15	mg/L
CF76730	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	5.5	1.5	3	3	ug/Kg
CF76730	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	18	7.3	3	3	ug/Kg
CF76730	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.165	0.010	0.015	0.015	mg/L
CF76730	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.165	0.010	0.15	0.15	mg/L

Monday, May 04, 2020

Sample Criteria Exceedances Report

Criteria: CT: GAM, GBM, GWP, I/C, RC, SWP

State: CT

GCF76722 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF76731	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	53	7.8	3	3	ug/Kg
CF76731	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	21	7.8	3	3	ug/Kg
CF76731	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	4.8	1.6	3	3	ug/Kg
CF76731	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	53	7.8	20	20	ug/Kg
CF76731	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	21	7.8	20	20	ug/Kg
CF76731	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.061	0.010	0.015	0.015	mg/L
CF76732	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	11	7.6	3	3	ug/Kg
CF76732	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	25	7.6	3	3	ug/Kg
CF76732	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	25	7.6	20	20	ug/Kg
CF76732	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.165	0.010	0.015	0.015	mg/L
CF76732	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.165	0.010	0.15	0.15	mg/L
CF76734	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	22	7.2	3	3	ug/Kg
CF76734	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	19	7.2	3	3	ug/Kg
CF76734	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	12	7.2	3	3	ug/Kg
CF76734	$PEST_SMR	4,4' -DDD	CT / RSR GB (mg/kg) / APS Organics	22	7.2	20	20	ug/Kg
CF76734	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.137	0.010	0.015	0.015	mg/L
CF76735	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	10	7.1	3	3	ug/Kg
CF76735	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	3.2	1.4	3	3	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** TRC Environmental Corp.

Project Location: CONN DOT RT 15 MERRITT PARKW ***Project Number:***

Laboratory Sample ID(s): CF76722-CF76736 ***Sampling Date(s):*** 4/21/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***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, Mercury Narration, PEST Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Monday, May 04, 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

NY # 11301

RCP Certification Report

May 04, 2020

SDG I.D.: GCF76722

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.

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria.

ETPH Narration

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

QC Batch 527180 (Samples: CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733): -----

The LCS and/or the LCSD recovery is above the upper range, therefore a slight high bias is possible. (Ext. Petroleum H.C. (C9-C36))

Instrument:

AU-FID1 04/23/20-1 Jeff Bucko, Chemist 04/23/20

CF76726 (1X), CF76728 (1X), CF76729 (1X)

The initial calibration (ETPH403I) 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 (423A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 04/22/20-1 Jeff Bucko, Chemist 04/22/20

CF76724 (1X), CF76725 (1X), CF76727 (1X), CF76730 (1X), CF76731 (1X), CF76732 (1X), CF76733 (1X), CF76735 (1X)

The initial calibration (ETPH319I) 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 (422A005_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 04/23/20-1 Jeff Bucko, Chemist 04/23/20

CF76734 (1X)

The initial calibration (ETPH415I) 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 (423A007_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 04/22/20-1 Jeff Bucko, Chemist 04/22/20

CF76723 (1X)

The initial calibration (ETPH420I) 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 (422A005_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):

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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NY # 11301

RCP Certification Report

May 04, 2020

SDG I.D.: GCF76722

ETPH Narration

Batch 527155 (CF74301)

CF76723

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

Batch 527157 (CF76263)

CF76735

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

Batch 527271 (CF76587)

CF76734

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 527180 (CF76727)

CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733

All LCS recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(121%)
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? No.

QC Batch 527225 (Samples: CF76734, CF76735): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Mercury)

Instrument:

MERLIN 04/22/20 07:30 Rick Schweitzer, Chemist 04/22/20

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

NY # 11301

Certification Report

May 04, 2020

SDG I.D.: GCF76722

Mercury Narration

CF76723, CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735

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 527224 (CF76082)

CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733

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 527225 (CF76569)

CF76734, CF76735

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 527227 (CF76477)

CF76723

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 04/22/20 07:54 Emily Kolominskaya, Chemist 04/22/20

CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735

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 04/22/20 08:23 Cindy Pearce, Chemist 04/22/20

CF76723

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

May 04, 2020

SDG I.D.: GCF76722

ICP Metals Narration

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.

BLUE 05/04/20 10:08 Emily Kolominskaya, Chemist 05/04/20

CF76729, CF76730, CF76731, CF76732, CF76734

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 527150 (CF75600)

CF76723

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 527167 (CF76556)

CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 528524 (CF75985)

CF76729, CF76730, CF76731, CF76732, CF76734

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PEST Narration

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

NY # 11301

RCP Certification Report

May 04, 2020

SDG I.D.: GCF76722

PEST Narration

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

QC Batch 527175 (Samples: CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (4,4'' -DDD)

QC Batch 527298 (Samples: CF76723): -----

One or more surrogates is outside of criteria. (% DCBP (Confirmation), % TCMX (Confirmation))

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. (4,4'' -DDD)

Instrument:

AU-ECD4 04/23/20-1 Chelsey Guerette, Chemist 04/23/20

CF76723 (1X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 04/22/20-1 Chelsey Guerette, Chemist 04/22/20

CF76724 (2X), CF76725 (2X), CF76726 (2X), CF76727 (2X), CF76728 (2X), CF76729 (2X), CF76730 (2X), CF76731 (2X), CF76732 (2X), CF76733 (2X), CF76734 (2X), CF76735 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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: CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735
Preceding CC 422A053 - None.
Succeeding CC 422A068 - g-BHC 21%H (20%)

QC (Batch Specific):

Batch 527298 (CF76498)

CF76723

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: 4,4' -DDD(21.0%)
A LCS and LCS duplicate were performed instead of a MS and MSD.Gamma chlordane recovery is reported as chlordane in the LCS and LCSD.
NR - surrogates were not spiked and are not reported.

QC (Site Specific):

Environmental Laboratories, Inc.
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NY # 11301

RCP Certification Report

May 04, 2020

SDG I.D.: GCF76722

PEST Narration

Batch 527175 (CF76730)

CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735

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: 4,4' -DDD(37.3%)
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:

CHEM07 04/21/20-1 Wes Bryon, Chemist 04/21/20

CF76724 (1X), CF76725 (1X), CF76726 (1X), CF76727 (1X), CF76728 (1X), CF76729 (1X), CF76730 (1X), CF76731 (1X), CF76732 (1X), CF76733 (1X), CF76734 (1X), CF76735 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_BN_0407):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Indeno(1,2,3-cd)pyrene 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 (CHEM07/0421_03-7_BN_0407):
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 527154 (CF74932)

CF76723

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
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):

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RCP Certification Report

May 04, 2020

SDG I.D.: GCF76722

SVOA Narration

Batch 527168 (CF76728)

CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735

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%)

SVOASIM Narration

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

Instrument:

CHEM27 04/22/20-1 Wes Bryon, Chemist 04/22/20

CF76723 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_BNSIM18_0408):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0422_03-27_BNSIM18_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.

QC (Batch Specific):

Batch 527154 (CF74932)

CF76723

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 527168 (CF76728)

CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735

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May 04, 2020

SDG I.D.: GCF76722

SVOASIM Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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

QC Batch 527273 (Samples: CF76722, CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735): -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone)

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. (Dichlorodifluoromethane)

QC Batch 527273H: -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone, Chloroethane, Trichlorofluoromethane)

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane)

QC Batch 527429 (Samples: CF76723): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane)

Instrument:

CHEM14 04/21/20-2 Jane Li, Chemist 04/21/20

CF76722 (1X), CF76724 (1X), CF76725 (1X), CF76726 (1X), CF76727 (1X), CF76728 (1X), CF76729 (1X), CF76730 (1X), CF76731 (1X), CF76732 (1X), CF76733 (1X), CF76734 (1X), CF76735 (1X), CF76736 (50X)

Initial Calibration Evaluation (CHEM14/VT042020):
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 Table 4 recommended minimum response factors: Tetrachloroethene 0.189 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0421_28-VT042020):
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.

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RCP Certification Report

May 04, 2020

SDG I.D.: GCF76722

VOA Narration

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM14 04/22/20-1 Jane Li, Chemist 04/22/20

CF76725 (1X, 50X), CF76728 (50X)

Initial Calibration Evaluation (CHEM14/VT042020):
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 Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0422_02-VT042020):
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.

CHEM17 04/22/20-1 Michael Hahn, Chemist 04/22/20

CF76723 (1X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.
EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-042020):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane 28% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.039 (0.05), 2-Hexanone 0.083 (0.1), Acetone 0.036 (0.1), Acrylonitrile 0.048 (0.05), Bromoform 0.077 (0.1), Methyl ethyl ketone 0.051 (0.1), Tetrahydrofuran (THF) 0.031 (0.05)
The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.039 (0.05), Acetone 0.036 (0.05), Acrylonitrile 0.048 (0.05), Tetrahydrofuran (THF) 0.031 (0.05)

Continuing Calibration Verification (CHEM17/0422_02-VT-042020):
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: 1,2-Dibromo-3-chloropropane 0.035 (0.05), Acetone 0.030 (0.05), Acrylonitrile 0.046 (0.05), Methyl ethyl ketone 0.043 (0.05), Tetrahydrofuran (THF) 0.030 (0.05)

QC (Batch Specific):

Batch 527273 (CF76082) CHEM14 4/21/2020-2

CF76722(1X), CF76724(1X), CF76725(1X), CF76726(1X), CF76727(1X), CF76728(1X), CF76729(1X), CF76730(1X), CF76731(1X), CF76732(1X), CF76733(1X), CF76734(1X), CF76735(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(137%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(69%), Dichlorodifluoromethane(135%)
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-

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RCP Certification Report

May 04, 2020

SDG I.D.: GCF76722

VOA Narration

160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527273H (CF76082) CHEM14 4/21/2020-2

CF76736(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(53%), Chloroethane(34%), Dichlorodifluoromethane(138%), Trichlorofluoromethane(43%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(53%), Chloroethane(34%), Dichlorodifluoromethane(137%), Trichlorofluoromethane(42%)
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 527429 (CF76723) CHEM17 4/22/2020-1

CF76723(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(131%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QC (Site Specific):

Batch 527432H (CF76725) CHEM14 4/22/2020-1

CF76725(50X), CF76728(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 1.8C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]

CHAIN OF CUSTODY RECORD

Temp 1.8 °C Pg 1 of 2

PHOENIX *Environmental Laboratories, Inc.*

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trcco...

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: ConnDot-RT 15 Merritt Parkway Project P.O: 152374
Report to: Christi Gagnon
Invoice to: TRC
QUOTE #

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 4-21-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	VTPH	PAHs (8270)	Total MCP 8 Metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
760722	TB20200421	S	4-21-20	0800	X					3				6							3
760723	FB20200421	S	4-21-20	0820	X	X	X	X	X					3 4			1				8
760724	SB-16	S	4-21-20	1325	X	X	X	X	X	3	2										5
760725	SB-17	S	4-21-20	1335	X	X	X	X	X	3	2										5
760726	SB-18	S	4-21-20	1350	X	X	X	X	X	3	2										5
760727	SB-19	S	4-21-20	1400	X	X	X	X	X	3	2										5
760728	SB-20	S	4-21-20	1410	X	X	X	X	X	3	2										5
760729	SB-21	S	4-21-20	1420	X	X	X	X	X	3	2										5
760730	SB-22	S	4-21-20	1430	X	X	X	X	X	3	2										5
760731	SB-23	S	4-21-20	1440	X	X	X	X	X	3	2										5
760732	SB-24	S	4-21-20	1450	X	X	X	X	X	3	3										5
760733	SB-25	S	4-21-20	1500	X	X	X	X	X	3	3										5

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	4-21-20	15:30
[signature]	[signature]	4/21/20	16:33

Comments, Special Requirements or Regulations:
Pricing Non-DAS Contract
No Sales Tax - ConnDot
Day 2

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]

CHAIN OF CUSTODY RECORD

Temp 1.8°C Pg 2 of 2

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587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trcsolutions.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: Conn Dot - RT 15 Merritt Parkway Project P.O: 152374
Report to: Christi Gagnon
Invoice to: TRC
QUOTE #

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 4-21-20

Analysis Request

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ΣTPH	PAHs (8270)	Total RCRA 8 metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
76734	SB-26	S	4-21-20	1510	X	X	X	X	X		3	2									5
	~~SB-27~~	S	4-21-20		X	X	X	X	X		3	2									5
	~~SB-28~~	S	4-21-20		X	X	X	X	X		3	2									5
	~~SB-29~~	S	4-21-20		X	X	X	X	X		3	2									5
	~~SB-30~~	S	4-21-20		X	X	X	X	X		3	2									5
76735	SB-22B	S	4-21-20	1435	X	X	X	X	X		3	2									5
76736	TB HL																				

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	4/21/20	15:29
[signature]	[signature]	4/21/20	16:33

Comments, Special Requirements or Regulations:
Pricing ~~per~~ DAS Contract
no Sales tax - ConnDot
Day 1

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Sarah Bell

From: Gagnon, Kristi <KGagnon@trccompanies.com>
Sent: Friday, May 01, 2020 12:09 PM
To: Sarah Bell
Subject: FW: [EXTERNAL] Phoenix Labs - GCF76722, CONN DOT RT 15 MERRITT PARKWY - Report Ready

Good afternoon Sarah,

Can we also run these samples for SPLP Metals for lead, standard TAT:

SB-21,
SB-22,
SB-23,
SB-24,
SB-26,

Thanks,
Kristi Gagnon
Environmental Scientist II

21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | **C** 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
Sent: Sunday, April 26, 2020 1:32 PM
To: Gagnon, Kristi <KGagnon@trccompanies.com>
Subject: [EXTERNAL] Phoenix Labs - GCF76722, CONN DOT RT 15 MERRITT PARKWY - Report Ready

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Delivery group GCF76722 (CONN DOT RT 15 MERRITT PARKWY) for the following samples:

CF76722 - TB20200421 LL
CF76723 - FB20200421
CF76724 - SB-16
CF76725 - SB-17
CF76726 - SB-18
CF76727 - SB-19
CF76728 - SB-20
CF76729 - SB-21
CF76730 - SB-22
CF76731 - SB-23
CF76732 - SB-24
CF76733 - SB-25
CF76734 - SB-26
CF76735 - SB-22B
CF76736 - TB20200421 HL

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

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:KGagnon@trccompanies.com

PHOENIX
Environmental Laboratories, Inc.

Tuesday, May 05, 2020

Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: **CONNDOT RT 15 MERRITT**
SDG ID: **GCF77592**
Sample ID#s: **CF77592 - CF77595**

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

May 05, 2020

SDG I.D.: GCF77592

Version 2: Per client request SPLP metals were added on.

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

Sample Id Cross Reference

May 05, 2020

SDG I.D.: GCF77592

Project ID: CONNDOT RT 15 MERRITT

Client Id	Lab Id	Matrix
SB-27	CF77592	SOIL
SB-28	CF77593	SOIL
SB-29	CF77594	SOIL
SB-30	CF77595	SOIL

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

Analysis Report

May 05, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/22/20	8:00
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77592
Phoenix ID: CF77592

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	2.25	0.77	mg/Kg	1	04/23/20	EK	SW6010D
Barium	36.6	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.66	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	15.4	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	04/23/20	RS	SW7471B
Lead	7.99	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.032	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	89		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/AA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/MM	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	95		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-27

Phoenix I.D.: CF77592

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0073	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	54		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	58		%	2	04/24/20	CG	30 - 150 %
% TCMX	47		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	48		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.002	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.017	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-27

Phoenix I.D.: CF77592

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.017	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.17	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.002	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.02	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0067	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0067	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0067	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0067	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0067	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0034	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-27

Phoenix I.D.: CF77592

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	95		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	91		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	70		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/22/20		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
May 05, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 05, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/22/20	8:20
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77592
Phoenix ID: CF77593

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-28

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	11.2	0.74	mg/Kg	1	04/23/20	EK	SW6010D
Barium	66.3	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.45	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	25.0	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.28	0.07	mg/Kg	5	04/23/20	RS	SW7471B
Lead	432	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Arsenic	0.005	0.004	mg/L	1	05/04/20	TH	SW6010D
SPLP Lead	0.085	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	86		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/AA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	120	58	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0043	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.039	0.0076	mg/Kg	2	04/24/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDT	0.14	0.038	mg/Kg	10	04/24/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	53		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	04/24/20	CG	30 - 150 %
% TCMX	49		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	47		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/23/20	JLI	70 - 130 %

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	83		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	90		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	0.3	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.58	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.7	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.64	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.52	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.65	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.74	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	1	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.48	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.68	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.94	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	66		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	67		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/22/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 05, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 05, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/22/20	8:30
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77592
Phoenix ID: CF77594

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-29

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	4.27	0.81	mg/Kg	1	04/23/20	EK	SW6010D
Barium	67.0	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.24	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	24.9	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	197	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.033	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	85		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/AA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0017	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.0078	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.012	0.0077	mg/Kg	2	04/24/20	CG	SW8081B

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-29

Phoenix I.D.: CF77594

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	52		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	48		%	2	04/24/20	CG	30 - 150 %
% TCMX	46		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	46		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-29

Phoenix I.D.: CF77594

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0079	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0079	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0079	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0079	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0079	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0039	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-29

Phoenix I.D.: CF77594

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	94		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	92		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	76		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	63		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/22/20		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
May 05, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 05, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/22/20	8:40
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77592
Phoenix ID: CF77595

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-30

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	4.81	0.78	mg/Kg	1	04/23/20	EK	SW6010D
Barium	57.4	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.34	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	23.8	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	261	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.048	0.010	mg/L	1	05/04/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/04/20	W/W	SW3010A
Percent Solid	86		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Soil Extraction for SVOA	Completed				04/22/20	RR/MA	SW3546
SPLP Extraction for Metals	Completed				05/01/20	w	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	61	58	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0032	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.013	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.03	0.0077	mg/Kg	2	04/24/20	CG	SW8081B

Ver 2

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-30

Phoenix I.D.: CF77595

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	56		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	51		%	2	04/24/20	CG	30 - 150 %
% TCMX	54		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	56		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/23/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/23/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-30

Phoenix I.D.: CF77595

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/23/20	HM	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/23/20	HM	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Benzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/23/20	HM	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/23/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0073	mg/Kg	1	04/23/20	HM	SW8260C
Methylene chloride	ND	0.0073	mg/Kg	1	04/23/20	HM	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0073	mg/Kg	1	04/23/20	HM	SW8260C
Toluene	0.0042	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0073	mg/Kg	1	04/23/20	HM	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0073	mg/Kg	1	04/23/20	HM	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/23/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/23/20	HM	70 - 130 %
% Bromofluorobenzene	82		%	1	04/23/20	HM	70 - 130 %

Ver 2

Project ID: CONNDOT RT 15 MERRITT
Client ID: SB-30

Phoenix I.D.: CF77595

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	04/23/20	HM	70 - 130 %
% Toluene-d8	90		%	1	04/23/20	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	0.31	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.8	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.88	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.68	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.61	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.92	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.89	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	1.4	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.55	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	1.1	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	1.3	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	69		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	59		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/22/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 05, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

QA/QC Report

May 05, 2020

QA/QC Data

SDG I.D.: GCF77592

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 527395 (mg/kg), QC Sample No: CF77175 2X (CF77592, CF77593)													
Mercury - Soil	BRL	0.03	0.31	0.29	6.70	82.2	100	19.5	116	89.4	25.9	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 527396 (mg/kg), QC Sample No: CF77594 2X (CF77594, CF77595)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	102	90.0	12.5	111	108	2.7	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 528525 (mg/L), QC Sample No: CF71381 (CF77592, CF77593, CF77594, CF77595)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.004	<0.004	<0.004	NC	107	108	0.9	107			80 - 120	20
Lead	BRL	0.010	0.010	0.011	NC	102	102	0.0	102			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 527326 (mg/kg), QC Sample No: CF77136 (CF77592, CF77593, CF77594, CF77595)													
ICP Metals - Soil													
Arsenic	BRL	0.67	1.22	1.12	NC	101	108	6.7	97.3			75 - 125	35
Barium	BRL	0.33	33.4	29.9	11.1	104	107	2.8	99.5			75 - 125	35
Cadmium	BRL	0.33	0.53	0.47	NC	98.0	102	4.0	97.2			75 - 125	35
Chromium	BRL	0.33	8.99	8.28	8.20	101	104	2.9	96.4			75 - 125	35
Lead	BRL	0.33	24.8	19.0	26.5	101	104	2.9	101			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.3	NC	98.8	102	3.2	93.9			75 - 125	35
Silver	BRL	0.33	<0.35	<0.32	NC	97.8	102	4.2	99.6			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

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

QA/QC Report

May 05, 2020

QA/QC Data

SDG I.D.: GCF77592

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 527337 (mg/Kg), QC Sample No: CF77592 (CF77592, CF77593, CF77594, CF77595)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	81	96	16.9	119			60 - 120	30
% n-Pentacosane	62	%	72	79	9.3	90			50 - 150	30
Comment:										
There is no MSD for this batch.										
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 527335 (mg/Kg), QC Sample No: CF77594 2X (CF77592, CF77593, CF77594, CF77595)										
Pesticides - Soil										
4,4' -DDD	ND	0.0017	72	65	10.2	58	53	9.0	40 - 140	30
4,4' -DDE	ND	0.0017	67	62	7.8	69	62	10.7	40 - 140	30
4,4' -DDT	ND	0.0017	67	60	11.0	80	71	11.9	40 - 140	30
a-BHC	ND	0.001	56	51	9.3	46	38	19.0	40 - 140	30
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	0.001	65	61	6.3	52	45	14.4	40 - 140	30
b-BHC	ND	0.001	72	67	7.2	61	52	15.9	40 - 140	30
Chlordane	ND	0.033	67	62	7.8	53	46	14.1	40 - 140	30
d-BHC	ND	0.0033	66	61	7.9	51	45	12.5	40 - 140	30
Dieldrin	ND	0.001	69	63	9.1	53	48	9.9	40 - 140	30
Endosulfan I	ND	0.0033	70	64	9.0	54	49	9.7	40 - 140	30
Endosulfan II	ND	0.0033	73	66	10.1	55	50	9.5	40 - 140	30
Endosulfan sulfate	ND	0.0033	70	63	10.5	54	52	3.8	40 - 140	30
Endrin	ND	0.0033	59	53	10.7	50	45	10.5	40 - 140	30
Endrin aldehyde	ND	0.0033	58	51	12.8	45	42	6.9	40 - 140	30
Endrin ketone	ND	0.0033	70	64	9.0	53	48	9.9	40 - 140	30
g-BHC	ND	0.001	64	58	9.8	50	44	12.8	40 - 140	30
Heptachlor	ND	0.0033	63	58	8.3	51	45	12.5	40 - 140	30
Heptachlor epoxide	ND	0.0033	68	63	7.6	55	45	20.0	40 - 140	30
Methoxychlor	ND	0.0033	66	60	9.5	54	54	0.0	40 - 140	30
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	48	%	69	60	14.0	50	47	6.2	30 - 150	30
% DCBP (Confirmation)	54	%	75	70	6.9	55	49	11.5	30 - 150	30
% TCMX	43	%	58	53	9.0	45	42	6.9	30 - 150	30
% TCMX (Confirmation)	44	%	61	56	8.5	48	40	18.2	30 - 150	30
QA/QC Batch 527319 (mg/Kg), QC Sample No: CF77248 (CF77592, CF77593, CF77594, CF77595)										
Semivolatiles - Soil										
2-Methylnaphthalene	ND	0.23	71	76	6.8	57	73	24.6	40 - 140	30
Acenaphthene	ND	0.23	77	87	12.2	67	82	20.1	30 - 130	30
Acenaphthylene	ND	0.23	75	84	11.3	62	79	24.1	40 - 140	30
Anthracene	ND	0.23	73	82	11.6	82	80	2.5	40 - 140	30
Benz(a)anthracene	ND	0.23	72	81	11.8	86	82	4.8	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzo(a)pyrene	ND	0.23	74	82	10.3	84	82	2.4	40 - 140	30	
Benzo(b)fluoranthene	ND	0.23	89	99	10.6	97	97	0.0	40 - 140	30	
Benzo(ghi)perylene	ND	0.23	62	69	10.7	72	72	0.0	40 - 140	30	
Benzo(k)fluoranthene	ND	0.23	57	62	8.4	61	58	5.0	40 - 140	30	
Chrysene	ND	0.23	76	82	7.6	87	84	3.5	40 - 140	30	
Dibenz(a,h)anthracene	ND	0.23	68	76	11.1	79	78	1.3	40 - 140	30	
Fluoranthene	ND	0.23	54	61	12.2	62	59	5.0	40 - 140	30	
Fluorene	ND	0.23	73	79	7.9	69	80	14.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	60	66	9.5	71	71	0.0	40 - 140	30	
Naphthalene	ND	0.23	68	72	5.7	53	68	24.8	40 - 140	30	
Phenanthrene	ND	0.23	73	83	12.8	79	82	3.7	40 - 140	30	
Pyrene	ND	0.23	54	63	15.4	63	60	4.9	30 - 130	30	
% 2-Fluorobiphenyl	77	%	67	75	11.3	54	69	24.4	30 - 130	30	
% Nitrobenzene-d5	69	%	69	73	5.6	51	66	25.6	30 - 130	30	
% Terphenyl-d14	67	%	56	65	14.9	66	61	7.9	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 527469 (mg/Kg), QC Sample No: CF77898 (CF77595)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	0.23	63	39	47.1	57			40 - 140	30	l,r
Acenaphthene	ND	0.23	65	47	32.1	62			30 - 130	30	r
Acenaphthylene	ND	0.23	64	45	34.9	60			40 - 140	30	r
Anthracene	ND	0.23	66	53	21.8	66			40 - 140	30	
Benz(a)anthracene	ND	0.23	65	53	20.3	64			40 - 140	30	
Benzo(a)pyrene	ND	0.23	65	52	22.2	61			40 - 140	30	
Benzo(b)fluoranthene	ND	0.23	74	62	17.6	74			40 - 140	30	
Benzo(ghi)perylene	ND	0.23	44	34	25.6	46			40 - 140	30	l
Benzo(k)fluoranthene	ND	0.23	50	38	27.3	49			40 - 140	30	l
Chrysene	ND	0.23	65	53	20.3	62			40 - 140	30	
Dibenz(a,h)anthracene	ND	0.23	54	40	29.8	52			40 - 140	30	
Fluoranthene	ND	0.23	61	50	19.8	59			40 - 140	30	
Fluorene	ND	0.23	63	49	25.0	59			40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	53	39	30.4	49			40 - 140	30	l
Naphthalene	ND	0.23	56	31	57.5	52			40 - 140	30	l,r
Phenanthrene	ND	0.23	64	53	18.8	66			40 - 140	30	
Pyrene	ND	0.23	61	49	21.8	59			30 - 130	30	
% 2-Fluorobiphenyl	48	%	59	36	48.4	55			30 - 130	30	r
% Nitrobenzene-d5	46	%	58	30	63.6	49			30 - 130	30	r
% Terphenyl-d14	74	%	66	53	21.8	58			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 527415 (mg/Kg), QC Sample No: CF77261 (CF77592, CF77593, CF77594, CF77595)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	100	101	1.0	95	96	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	99	97	2.0	99	99	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	102	100	2.0	102	99	3.0	70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	98	97	1.0	95	96	1.0	70 - 130	30	
1,1-Dichloroethane	ND	0.005	95	96	1.0	96	97	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCF77592

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloroethene	ND	0.005	105	105	0.0	101	105	3.9	70 - 130	30	
1,1-Dichloropropene	ND	0.005	100	99	1.0	95	98	3.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	98	99	1.0	69	68	1.5	70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005	92	92	0.0	95	93	2.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	99	98	1.0	70	68	2.9	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001	100	97	3.0	76	95	22.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	113	112	0.9	102	100	2.0	70 - 130	30	
1,2-Dibromoethane	ND	0.005	99	99	0.0	95	95	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	100	97	3.0	88	88	0.0	70 - 130	30	
1,2-Dichloroethane	ND	0.005	97	97	0.0	94	94	0.0	70 - 130	30	
1,2-Dichloropropane	ND	0.005	100	100	0.0	97	99	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	101	98	3.0	93	103	10.2	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	98	96	2.1	89	87	2.3	70 - 130	30	
1,3-Dichloropropane	ND	0.005	96	98	2.1	93	93	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	99	96	3.1	88	86	2.3	70 - 130	30	
2,2-Dichloropropane	ND	0.005	103	101	2.0	97	98	1.0	70 - 130	30	
2-Chlorotoluene	ND	0.005	101	99	2.0	96	95	1.0	70 - 130	30	
2-Hexanone	ND	0.025	104	105	1.0	91	90	1.1	70 - 130	30	
2-Isopropyltoluene	ND	0.005	105	102	2.9	98	100	2.0	70 - 130	30	
4-Chlorotoluene	ND	0.005	98	96	2.1	89	90	1.1	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	102	102	0.0	98	98	0.0	70 - 130	30	
Acetone	ND	0.01	124	100	21.4	102	79	25.4	70 - 130	30	
Acrylonitrile	ND	0.005	97	98	1.0	95	99	4.1	70 - 130	30	
Benzene	ND	0.001	102	101	1.0	98	99	1.0	70 - 130	30	
Bromobenzene	ND	0.005	102	101	1.0	94	95	1.1	70 - 130	30	
Bromochloromethane	ND	0.005	98	98	0.0	96	96	0.0	70 - 130	30	
Bromodichloromethane	ND	0.005	101	102	1.0	96	99	3.1	70 - 130	30	
Bromoform	ND	0.005	99	100	1.0	91	91	0.0	70 - 130	30	
Bromomethane	ND	0.005	120	122	1.7	111	112	0.9	70 - 130	30	
Carbon Disulfide	ND	0.005	98	100	2.0	79	82	3.7	70 - 130	30	
Carbon tetrachloride	ND	0.005	100	99	1.0	96	99	3.1	70 - 130	30	
Chlorobenzene	ND	0.005	99	99	0.0	93	94	1.1	70 - 130	30	
Chloroethane	ND	0.005	102	103	1.0	97	99	2.0	70 - 130	30	
Chloroform	ND	0.005	93	93	0.0	93	94	1.1	70 - 130	30	
Chloromethane	ND	0.005	106	107	0.9	96	95	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	95	97	2.1	93	97	4.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	102	100	2.0	92	93	1.1	70 - 130	30	
Dibromochloromethane	ND	0.003	103	105	1.9	96	97	1.0	70 - 130	30	
Dibromomethane	ND	0.005	99	98	1.0	96	96	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	126	125	0.8	114	115	0.9	70 - 130	30	
Ethylbenzene	ND	0.001	102	102	0.0	87	94	7.7	70 - 130	30	
Hexachlorobutadiene	ND	0.005	102	100	2.0	74	75	1.3	70 - 130	30	
Isopropylbenzene	ND	0.001	103	100	3.0	86	91	5.6	70 - 130	30	
m&p-Xylene	ND	0.002	99	99	0.0	85	91	6.8	70 - 130	30	
Methyl ethyl ketone	ND	0.005	105	101	3.9	107	102	4.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	91	89	2.2	89	78	13.2	70 - 130	30	
Methylene chloride	ND	0.005	92	92	0.0	105	90	15.4	70 - 130	30	
Naphthalene	ND	0.005	105	106	0.9	59	69	15.6	70 - 130	30	m
n-Butylbenzene	ND	0.001	106	103	2.9	78	84	7.4	70 - 130	30	
n-Propylbenzene	ND	0.001	103	100	3.0	80	87	8.4	70 - 130	30	
o-Xylene	ND	0.002	103	104	1.0	96	102	6.1	70 - 130	30	
p-Isopropyltoluene	ND	0.001	104	101	2.9	93	96	3.2	70 - 130	30	
sec-Butylbenzene	ND	0.001	108	105	2.8	88	91	3.4	70 - 130	30	

QA/QC Data

SDG I.D.: GCF77592

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Styrene	ND	0.005	101	100	1.0	85	89	4.6	70 - 130	30
tert-Butylbenzene	ND	0.001	101	99	2.0	97	97	0.0	70 - 130	30
Tetrachloroethene	ND	0.005	101	100	1.0	97	100	3.0	70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	95	96	1.0	94	91	3.2	70 - 130	30
Toluene	ND	0.001	104	104	0.0	98	101	3.0	70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	108	84	25.0	107	82	26.5	70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	102	103	1.0	92	92	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	117	116	0.9	103	100	3.0	70 - 130	30
Trichloroethene	ND	0.005	100	99	1.0	98	98	0.0	70 - 130	30
Trichlorofluoromethane	ND	0.005	107	106	0.9	106	111	4.6	70 - 130	30
Trichlorotrifluoroethane	ND	0.005	106	107	0.9	104	110	5.6	70 - 130	30
Vinyl chloride	ND	0.005	116	115	0.9	109	108	0.9	70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	101	100	1.0	101	101	0.0	70 - 130	30
% Bromofluorobenzene	97	%	98	100	2.0	97	99	2.0	70 - 130	30
% Dibromofluoromethane	95	%	96	96	0.0	96	96	0.0	70 - 130	30
% Toluene-d8	94	%	102	101	1.0	100	100	0.0	70 - 130	30

Comment:

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
May 05, 2020

Tuesday, May 05, 2020

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCF77592 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF77592	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.032	0.010	0.015	0.015	mg/L
CF77593	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	4.3	1.5	3	3	ug/Kg
CF77593	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	39	7.6	3	3	ug/Kg
CF77593	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	140	38	3	3	ug/Kg
CF77593	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	39	7.6	20	20	ug/Kg
CF77593	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	140	38	20	20	ug/Kg
CF77593	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	11.2	0.74	10	10	mg/Kg
CF77593	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	432	0.37	400	400	mg/Kg
CF77593	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.085	0.010	0.015	0.015	mg/L
CF77594	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	12	7.7	3	3	ug/Kg
CF77594	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	7.8	1.5	3	3	ug/Kg
CF77594	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.033	0.010	0.015	0.015	mg/L
CF77595	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	3.2	1.5	3	3	ug/Kg
CF77595	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	13	7.7	3	3	ug/Kg
CF77595	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	30	7.7	3	3	ug/Kg
CF77595	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	30	7.7	20	20	ug/Kg
CF77595	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.048	0.010	0.015	0.015	mg/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:*** TRC Environmental Corp.

Project Location: CONNDOT RT 15 MERRITT ***Project Number:***

Laboratory Sample ID(s): CF77592-CF77595 ***Sampling Date(s):*** 4/22/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***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: 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, May 05, 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

NY # 11301

RCP Certification Report

May 05, 2020

SDG I.D.: GCF77592

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-FID22 04/23/20-1 Jeff Bucko, Chemist 04/23/20

CF77592 (1X), CF77593 (1X), CF77594 (1X), CF77595 (1X)

The initial calibration (ETPH415I) 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 (423A007_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 527337 (CF77592)

CF77592, CF77593, CF77594, CF77595

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.
There is no MSD for this batch.
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 04/23/20 07:21 Rick Schweitzer, Chemist 04/23/20

CF77592, CF77593, CF77594, CF77595

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):

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

Certification Report

May 05, 2020

SDG I.D.: GCF77592

Mercury Narration

Batch 527395 (CF77175)

CF77592, CF77593

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

QC (Site Specific):

Batch 527396 (CF77594)

CF77594, CF77595

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
All MSD recoveries were within 75 - 125 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 04/23/20 09:24 Emily Kolominskaya, Chemist 04/23/20

CF77592, CF77593, CF77594, CF77595

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 05/04/20 10:08 Tina Hall, Chemist 05/04/20

CF77592, CF77593, CF77594, CF77595

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 527326 (CF77136)

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

May 05, 2020

SDG I.D.: GCF77592

ICP Metals Narration

CF77592, CF77593, CF77594, CF77595

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 528525 (CF71381)

CF77592, CF77593, CF77594, CF77595

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PEST Narration

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

Instrument:

AU-ECD4 04/23/20-1 Chelsey Guerette, Chemist 04/23/20

CF77592 (2X), CF77593 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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: CF77592, CF77593
Preceding CC 423A049 - Endrin Ketone 22%H (20%)
Succeeding CC 423A063 - None.

AU-ECD4 04/24/20-1 Chelsey Guerette, Chemist 04/24/20

CF77593 (10X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 04/23/20-1 Chelsey Guerette, Chemist 04/23/20

CF77594 (2X), CF77595 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 (Site Specific):

Batch 527335 (CF77594)

CF77592, CF77593, CF77594, CF77595

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 05, 2020

SDG I.D.: GCF77592

PEST Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
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 527469 (Samples: CF77595): -----

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. (2-Methylnaphthalene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Naphthalene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2-Methylnaphthalene, Acenaphthene, Naphthalene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Acenaphthylene)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2-Fluorobiphenyl, % Nitrobenzene-d5)

Instrument:

CHEM29 04/22/20-1 Matt Richard, Chemist 04/22/20

CF77592 (1X), CF77593 (1X), CF77594 (1X), CF77595 (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_0420):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0422_09-29_SPLIT_0420):
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):

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

NY # 11301

RCP Certification Report

May 05, 2020

SDG I.D.: GCF77592

SVOA Narration

Batch 527319 (CF77248)

CF77592, CF77593, CF77594, CF77595

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 527469 (CF77898)

CF77595

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: 2-Methylnaphthalene(39%), Benzo(ghi)perylene(34%), Benzo(k)fluoranthene(38%), Indeno(1,2,3-cd)pyrene(39%), Naphthalene(31%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: % 2-Fluorobiphenyl(48.4%), % Nitrobenzene-d5(63.6%), 2-Methylnaphthalene(47.1%), Acenaphthene(32.1%), Acenaphthylene(34.9%), Naphthalene(57.5%)
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

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

Instrument:

CHEM14 04/22/20-2 Jane Li, Chemist 04/22/20

CF77592 (1X), CF77593 (1X), CF77594 (1X), CF77595 (1X)

Initial Calibration Evaluation (CHEM14/VT042020):
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 Table 4 recommended minimum response factors: Tetrachloroethene 0.189 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0422_31-VT042020):
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.

QC (Batch Specific):

Batch 527415 (CF77261) CHEM14 4/22/2020-2

CF77592(1X), CF77593(1X), CF77594(1X), CF77595(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

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RCP Certification Report

May 05, 2020

SDG I.D.: GCF77592

VOA Narration

Temperature Narration

The samples were received at 3.9C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]
Temp 3.9 °C Pg 1 of 1

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trcompanies.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: ConnDot - RT 15 Marsh
Report to: Kristi Gagnon
Invoice to: TRC
QUOTE #

Project P.O.: 152374

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Gagnon Date:

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	GRPH	PAH (8270)	Total RCRA 8 metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol/[X] H2O	GL Soil container ( ) oz	GL Soil container (8) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
77592	SB-27	S	4-22-20	0800	X	X	X	X	X		3	2									5
77593	SB-28	S	4-22-20	0820	X	X	X	X	X		3	2									5
77594	SB-29	S	4-22-20	0830	X	X	X	X	X		3	2									5
77595	SB-30	S	4-22-20	0840	X	X	X	X	X		3	2									5

Relinquished by:	Accepted by:	Date:	Time:
Kristi Gagnon	Scott Suffak	4.22.20	1600
SR	Tyrone Allen	4/23/20	17:45

Comments, Special Requirements or Regulations:
Non-DAS Pricing
No Sales Tax-ConnDot
Day 3 / Day 2

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Sarah Bell

From: Gagnon, Kristi <KGagnon@trccompanies.com>
Sent: Friday, May 01, 2020 12:12 PM
To: Sarah Bell
Subject: FW: [EXTERNAL] Phoenix Labs - GCF77592, CONNDOT RT 15 MERRITT - Report Ready

Good afternoon Sarah,

Can we also run these samples for SPLP Metals for lead, standard TAT:

SB-26,
SB-28,
SB-29,
SB-30,

Also, SPLP Metals for arsenic for the following, standard TAT:

SB-28

Thanks,
Kristi Gagnon
Environmental Scientist II

21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | **C** 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
Sent: Wednesday, April 29, 2020 6:44 PM
To: Gagnon, Kristi <KGagnon@trccompanies.com>
Subject: [EXTERNAL] Phoenix Labs - GCF77592, CONNDOT RT 15 MERRITT - Report Ready

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Delivery group GCF77592 (CONNDOT RT 15 MERRITT) for the following samples:

CF77592 - SB-27
CF77593 - SB-28
CF77594 - SB-29
CF77595 - SB-30

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

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:KGagnon@trccompanies.com

PHOENIX
Environmental Laboratories, Inc.

Friday, May 08, 2020

Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: **CONN DOT RT 15 MERRITT PARKWAY**
SDG ID: **GCF77604**
Sample ID#s: CF77604 - CF77622

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

May 08, 2020

SDG I.D.: GCF77604

Version 2: Per client request SPLP Lead was added on.

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

Sample Id Cross Reference

May 08, 2020

SDG I.D.: GCF77604

Project ID: CONN DOT RT 15 MERRITT PARKWAY

Client Id	Lab Id	Matrix
TB20200422 LOW	CF77604	SOIL
TB20200422 HIGH	CF77605	SOIL
EB20200422	CF77606	GROUND WATER
SB-31	CF77607	SOIL
SB-32	CF77608	SOIL
SB-33	CF77609	SOIL
SB-34	CF77610	SOIL
SB-35	CF77611	SOIL
SB-36	CF77612	SOIL
SB-37	CF77613	SOIL
SB-38	CF77614	SOIL
SB-39	CF77615	SOIL
SB-40	CF77616	SOIL
SB-41	CF77617	SOIL
SB-42	CF77618	SOIL
SB-43	CF77619	SOIL
SB-44	CF77620	SOIL
SB-45	CF77621	SOIL
SB-39B	CF77622	SOIL

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	7:00
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77604

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: TB20200422 LOW

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: TB20200422 LOW

Phoenix I.D.: CF77604

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	0.25	mg/Kg	1	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Benzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Bromoform	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Bromomethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Chloroform	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Chloromethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	04/22/20	JLI	SW8260C
Naphthalene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
o-Xylene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Styrene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	04/22/20	JLI	SW8260C
Toluene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.005	mg/Kg	1	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	04/22/20	JLI	70 - 130 %

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102		%	1	04/22/20	JLI	70 - 130 %
Field Extraction	Completed				04/20/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	7:00
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77605

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: TB20200422 HIGH

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.14	mg/Kg	50	04/22/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
2-Chlorotoluene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
2-Hexanone	ND	0.7	mg/Kg	50	04/22/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
4-Chlorotoluene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	1.3	mg/Kg	50	04/22/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: TB20200422 HIGH

Phoenix I.D.: CF77605

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5	mg/Kg	50	04/22/20	JLI	SW8260C
Acrylonitrile	ND	0.025	mg/Kg	50	04/22/20	JLI	SW8260C
Benzene	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Bromobenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Bromochloromethane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Bromodichloromethane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Bromoform	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Bromomethane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Carbon Disulfide	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Carbon tetrachloride	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Chlorobenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Chloroethane	ND	0.15	mg/Kg	50	04/22/20	JLI	SW8260C
Chloroform	ND	0.12	mg/Kg	50	04/22/20	JLI	SW8260C
Chloromethane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Dibromochloromethane	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Dibromomethane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Ethylbenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/22/20	JLI	SW8260C
Isopropylbenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
m&p-Xylene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	3	mg/Kg	50	04/22/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Methylene chloride	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Naphthalene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
n-Butylbenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
n-Propylbenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
o-Xylene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
sec-Butylbenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Styrene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
tert-Butylbenzene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Tetrachloroethene	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Toluene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Total Xylenes	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.5	mg/Kg	50	04/22/20	JLI	SW8260C
Trichloroethene	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.25	mg/Kg	50	04/22/20	JLI	SW8260C
Vinyl chloride	ND	0.1	mg/Kg	50	04/22/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	04/22/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	100		%	50	04/22/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	101		%	50	04/22/20	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (50x)	100		%	50	04/22/20	JLI	70 - 130 %
Field Extraction	Completed				04/20/20		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.
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Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	KG	04/20/20	7:30
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77606

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: EB20200422

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/24/20	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	04/24/20	EK	SW6010D
Barium	< 0.002	0.002	mg/L	1	04/24/20	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	04/24/20	EK	SW6010D
Chromium	< 0.001	0.001	mg/L	1	04/24/20	EK	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	04/23/20	RS	SW7470A
Lead	< 0.002	0.002	mg/L	1	04/24/20	EK	SW6010D
Selenium	< 0.010	0.010	mg/L	1	04/24/20	EK	SW6010D
Extraction of CT ETPH	Completed				04/23/20	P/AK	SW3510C/SW3520C
Mercury Digestion	Completed				04/23/20	RA/RA	SW7470A
Extraction for Pest (LDL)	Completed				04/23/20	C	SW3510C
Semi-Volatile Extraction	Completed				04/24/20	P/AK	SW3520C
Total Metals Digestion	Completed				04/23/20	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.076	mg/L	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
4,4' -DDE	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
4,4' -DDT	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
a-BHC	ND	0.025	ug/L	1	04/25/20	CG	SW8081B
Alachlor	ND	0.074	ug/L	1	04/25/20	CG	SW8081B
Aldrin	ND	0.002	ug/L	1	04/25/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	04/25/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlordane	ND	0.29	ug/L	1	04/25/20	CG	SW8081B
d-BHC	ND	0.025	ug/L	1	04/25/20	CG	SW8081B
Dieldrin	ND	0.002	ug/L	1	04/25/20	CG	SW8081B
Endosulfan I	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
Endosulfan II	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
Endosulfan Sulfate	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
Endrin	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
Endrin Aldehyde	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
Endrin ketone	ND	0.049	ug/L	1	04/25/20	CG	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	04/25/20	CG	SW8081B
Heptachlor	ND	0.025	ug/L	1	04/25/20	CG	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	04/25/20	CG	SW8081B
Methoxychlor	ND	0.098	ug/L	1	04/25/20	CG	SW8081B
Toxaphene	ND	0.98	ug/L	1	04/25/20	CG	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	57		%	1	04/25/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	49		%	1	04/25/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	73		%	1	04/25/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	1	04/25/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2-Dibromoethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	04/22/20	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
Acetone	ND	25	ug/L	1	04/22/20	MH	SW8260C
Acrylonitrile	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Benzene	ND	0.70	ug/L	1	04/22/20	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/22/20	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	04/22/20	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	04/22/20	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Styrene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/22/20	MH	SW8260C
Toluene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/22/20	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/22/20	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	04/22/20	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	107		%	1	04/22/20	MH	70 - 130 %
% Bromofluorobenzene	88		%	1	04/22/20	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	04/22/20	MH	70 - 130 %
% Toluene-d8	101		%	1	04/22/20	MH	70 - 130 %
Semivolatiles by SIM, PAH							
2-Methylnaphthalene	ND	0.53	ug/L	1	04/27/20	WB	SW8270D (SIM)

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: EB20200422

Phoenix I.D.: CF77606

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	0.53	ug/L	1	04/27/20	WB	SW8270D (SIM)
Acenaphthylene	ND	0.32	ug/L	1	04/27/20	WB	SW8270D (SIM)
Anthracene	ND	0.53	ug/L	1	04/27/20	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/27/20	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.21	ug/L	1	04/27/20	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	04/27/20	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.50	ug/L	1	04/27/20	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.32	ug/L	1	04/27/20	WB	SW8270D (SIM)
Chrysene	ND	0.53	ug/L	1	04/27/20	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.11	ug/L	1	04/27/20	WB	SW8270D (SIM)
Fluoranthene	ND	0.53	ug/L	1	04/27/20	WB	SW8270D (SIM)
Fluorene	ND	0.53	ug/L	1	04/27/20	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.11	ug/L	1	04/27/20	WB	SW8270D (SIM)
Naphthalene	ND	0.53	ug/L	1	04/27/20	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	04/27/20	WB	SW8270D (SIM)
Pyrene	ND	0.53	ug/L	1	04/27/20	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	04/27/20	WB	30 - 130 %
% Nitrobenzene-d5	59		%	1	04/27/20	WB	30 - 130 %
% Terphenyl-d14	59		%	1	04/27/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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:

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

Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	13:20
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77607

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-31

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	3.49	0.76	mg/Kg	1	04/23/20	EK	SW6010D
Barium	46.0	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.92	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	17.0	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	159	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	90		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	RL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	64	54	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0034	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.033	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.08	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	58		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	49		%	2	04/24/20	CG	30 - 150 %
% TCMX	52		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/24/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0019	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.016	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.016	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.16	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-31

Phoenix I.D.: CF77607

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0019	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.019	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0063	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0063	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0063	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0063	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0063	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-31

Phoenix I.D.: CF77607

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.37	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.47	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.43	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.42	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.37	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.42	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.81	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.35	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.75	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	81		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	92		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		SW5035A

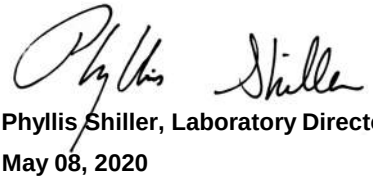
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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



Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	13:26
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77608

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-32

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	3.10	0.73	mg/Kg	1	04/23/20	EK	SW6010D
Barium	62.9	0.36	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.82	0.36	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	30.9	0.36	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	186	0.36	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	88		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	RL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	56	56	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0026	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.011	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.047	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0073	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	57		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	47		%	2	04/23/20	CG	30 - 150 %
% TCMX	53		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	50		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0019	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.016	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.016	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.16	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-32

Phoenix I.D.: CF77608

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0019	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.019	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-32

Phoenix I.D.: CF77608

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.39	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.49	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.43	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.37	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.41	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.8	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.31	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.76	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	78		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	80		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		SW5035A

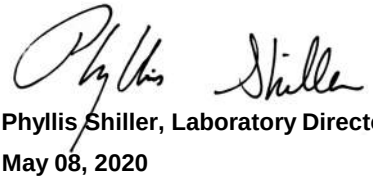
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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



Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	13:35
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77609

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-33

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	4.26	0.76	mg/Kg	1	04/23/20	EK	SW6010D
Barium	67.5	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.92	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	23.8	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	595	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.297	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	84		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	RL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	62	59	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0044	0.0015	mg/Kg	2	04/24/20	PS	SW8081B
4,4' -DDE	0.071	0.0077	mg/Kg	2	04/24/20	PS	SW8081B
4,4' -DDT	0.16	0.038	mg/Kg	10	04/23/20	PS	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	PS	SW8081B
Alachlor	ND	0.038	mg/Kg	10	04/23/20	PS	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	PS	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	PS	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/24/20	PS	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	PS	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/24/20	PS	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/24/20	PS	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/24/20	PS	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/24/20	PS	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/24/20	PS	SW8081B
Endrin aldehyde	ND	0.025	mg/Kg	2	04/24/20	PS	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/24/20	PS	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	PS	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/24/20	PS	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/24/20	PS	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/24/20	PS	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	PS	SW8081B
QA/QC Surrogates							
% DCBP	61		%	2	04/24/20	PS	30 - 150 %
% DCBP (Confirmation)	62		%	2	04/24/20	PS	30 - 150 %
% TCMX	53		%	2	04/24/20	PS	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/24/20	PS	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-33

Phoenix I.D.: CF77609

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0061	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0061	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0061	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0061	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0061	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.003	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-33

Phoenix I.D.: CF77609

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	106		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.7	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.82	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.74	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.68	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.6	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.75	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	1.6	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.69	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.75	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	1.5	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	72		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	13:43
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77610

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-34

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	17.2	0.75	mg/Kg	1	04/23/20	EK	SW6010D
Barium	46.3	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.72	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	60.0	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	518	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Arsenic	0.043	0.004	mg/L	1	05/07/20	TH	SW6010D
SPLP Lead	1.61	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	87		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	RL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	93	57	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0038	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.063	0.0075	mg/Kg	2	04/23/20	CG	SW8081B

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-34

Phoenix I.D.: CF77610

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4,4' -DDT	0.24	0.038	mg/Kg	10	04/24/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	62		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	64		%	2	04/23/20	CG	30 - 150 %
% TCMX	58		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	56		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.002	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.016	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-34

Phoenix I.D.: CF77610

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.016	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.16	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.002	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.02	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0066	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0066	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0066	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0066	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0066	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0033	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-34

Phoenix I.D.: CF77610

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	85		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	109		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	97		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	0.32	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.7	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.85	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.82	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.72	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.57	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.83	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	1.5	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.71	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.63	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	1.5	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	84		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	13:55
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77611

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-35

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	2.43	0.78	mg/Kg	1	04/23/20	EK	SW6010D
Barium	64.9	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.70	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	24.8	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	76.6	0.39	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	84		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	RL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	84		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0031	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.0094	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	62		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	57		%	2	04/23/20	CG	30 - 150 %
% TCMX	59		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	59		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.021	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.021	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.21	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-35

Phoenix I.D.: CF77611

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0025	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0083	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0083	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0083	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0083	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0083	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0042	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-35

Phoenix I.D.: CF77611

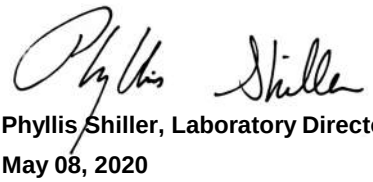
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	0.39	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	0.32	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	1.2	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	1.2	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	1.1	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.83	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.87	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	1.1	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	2.4	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.89	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	1.1	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	2.2	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	62		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	80		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	14:03
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77612

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-36

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	3.51	0.74	mg/Kg	1	04/23/20	EK	SW6010D
Barium	93.3	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.93	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	25.4	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	295	0.37	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.095	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	86		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	RL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	84		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0039	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.009	0.0075	mg/Kg	2	04/23/20	CG	SW8081B

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-36

Phoenix I.D.: CF77612

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	54		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	46		%	2	04/23/20	CG	30 - 150 %
% TCMX	53		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-36

Phoenix I.D.: CF77612

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-36

Phoenix I.D.: CF77612

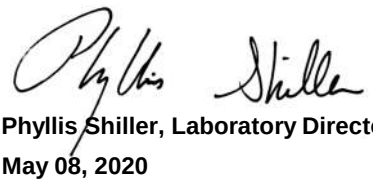
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	105		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.49	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.44	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.3	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.45	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.44	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.75	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.33	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.3	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.71	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	77		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	81		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	14:12
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77613

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-37

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	2.58	0.68	mg/Kg	1	04/23/20	EK	SW6010D
Barium	56.5	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.64	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	17.3	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	13.0	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	92		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	RL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/22/20	GG/EE	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	04/23/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/23/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	84		%	1	04/23/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	ND	0.002	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0071	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	66		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	74		%	2	04/23/20	CG	30 - 150 %
% TCMX	55		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	57		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-37

Phoenix I.D.: CF77613

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-37

Phoenix I.D.: CF77613

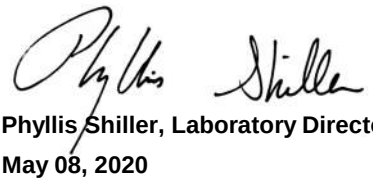
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	ND	0.25	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	74		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	86		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	14:25
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77614

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-38

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	2.97	0.68	mg/Kg	1	04/23/20	EK	SW6010D
Barium	73.5	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.79	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	27.0	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	59.1	0.34	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	88		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.0065	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.0021	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	33		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	36		%	2	04/24/20	CG	30 - 150 %
% TCMX	34		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	36		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0029	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.024	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.024	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.24	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-38

Phoenix I.D.: CF77614

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0029	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.029	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0098	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0098	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0098	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0098	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0098	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0049	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-38

Phoenix I.D.: CF77614

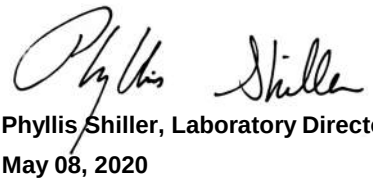
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	75		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	86		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	14:30
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77615

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-39

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	1.36	0.76	mg/Kg	1	04/23/20	EK	SW6010D
Barium	108	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	1.04	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	43.8	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	49.8	0.38	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	89		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	56	56	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0025	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.055	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.064	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0074	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	57		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	52		%	2	04/24/20	CG	30 - 150 %
% TCMX	53		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	53		%	2	04/24/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-39

Phoenix I.D.: CF77615

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	0.0067	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0035	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	101		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-39

Phoenix I.D.: CF77615

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	2.3	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	2	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	6.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	6.2	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	4.9	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	2.9	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	4.2	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	6	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	0.97	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	16	2.6	mg/Kg	10	04/23/20	WB	SW8270D
Fluorene	0.94	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	3.2	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	0.35	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	7	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	15	2.6	mg/Kg	10	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	79		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	83		%	1	04/23/20	WB	30 - 130 %
% 2-Fluorobiphenyl (10x)	Diluted Out		%	10	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5 (10x)	Diluted Out		%	10	04/23/20	WB	30 - 130 %
% Terphenyl-d14 (10x)	Diluted Out		%	10	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C16 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	14:45
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77616

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-40

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	3.06	0.71	mg/Kg	1	04/23/20	EK	SW6010D
Barium	86.5	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.88	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	43.3	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	121	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	86		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0099	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.045	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.13	0.038	mg/Kg	10	04/24/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	53		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	47		%	2	04/23/20	CG	30 - 150 %
% TCMX	50		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	51		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-40

Phoenix I.D.: CF77616

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-40

Phoenix I.D.: CF77616

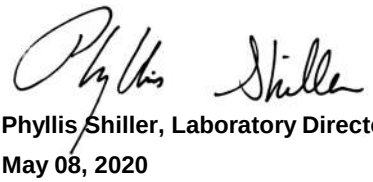
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.34	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.47	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.36	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.49	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.36	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.36	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.69	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.52	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.3	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.62	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	83		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	87		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	14:55
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77617

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-41

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	3.88	0.81	mg/Kg	1	04/23/20	EK	SW6010D
Barium	77.2	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.90	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	23.9	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.12	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	307	0.40	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/23/20	EK	SW6010D
SPLP Lead	0.181	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	85		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	RR/MA	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	81	58	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	94		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0043	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.031	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.15	0.039	mg/Kg	10	04/24/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	68		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	68		%	2	04/24/20	CG	30 - 150 %
% TCMX	58		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	58		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0019	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.016	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-41

Phoenix I.D.: CF77617

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.016	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.16	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0019	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.019	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0064	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0032	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-41

Phoenix I.D.: CF77617

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	105		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	97		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Acenaphthylene	0.54	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Anthracene	0.39	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Benz(a)anthracene	1.2	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Benzo(a)pyrene	1.3	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Benzo(b)fluoranthene	1	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Benzo(ghi)perylene	0.95	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Benzo(k)fluoranthene	0.99	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Chrysene	1.3	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Fluoranthene	2.9	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	1	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Phenanthrene	2.1	0.27	mg/Kg	1	04/23/20	AW	SW8270D
Pyrene	2.9	0.27	mg/Kg	1	04/23/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	04/23/20	AW	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/23/20	AW	30 - 130 %
% Terphenyl-d14	90		%	1	04/23/20	AW	30 - 130 %
Field Extraction	Completed				04/20/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	15:00
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77618

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-42

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Arsenic	3.96	0.71	mg/Kg	1	04/23/20	EK	SW6010D
Barium	47.3	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Cadmium	0.76	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Chromium	22.9	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	201	0.35	mg/Kg	1	04/23/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/23/20	EK	SW6010D
Percent Solid	85		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/22/20	F/AG/BF	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	140	58	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	135		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0033	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.034	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.11	0.039	mg/Kg	10	04/24/20	CG	SW8081B
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	63		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	04/23/20	CG	30 - 150 %
% TCMX	55		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	55		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.019	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.019	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.19	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-42

Phoenix I.D.: CF77618

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0074	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0074	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0074	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0074	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0074	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	97		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-42

Phoenix I.D.: CF77618

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.28	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.33	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.31	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.29	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.28	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.34	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.66	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.28	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.65	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	35		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	39		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	50		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		SW5035A

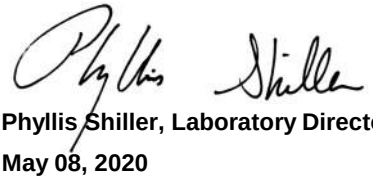
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

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



Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	15:15
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77619

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-43

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Arsenic	2.86	0.70	mg/Kg	1	04/24/20	CPP	SW6010D
Barium	54.6	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Cadmium	0.90	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Chromium	25.8	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	249	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/24/20	CPP	SW6010D
Percent Solid	86		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/23/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	69	57	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	97		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0029	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0069	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.052	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	65		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	59		%	2	04/23/20	CG	30 - 150 %
% TCMX	61		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	61		%	2	04/23/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-43

Phoenix I.D.: CF77619

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0062	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0031	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-43

Phoenix I.D.: CF77619

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.45	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.51	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.47	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.41	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.36	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.51	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	1	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.42	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.42	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.93	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	89		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		SW5035A

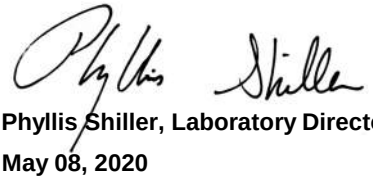
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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



Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	15:26
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77620

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-44

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Arsenic	3.97	0.79	mg/Kg	1	04/24/20	CPP	SW6010D
Barium	48.7	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Cadmium	1.13	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Chromium	19.5	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	155	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/24/20	CPP	SW6010D
Percent Solid	86		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/23/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	83	58	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	88		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.0033	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.01	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	52		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	53		%	2	04/23/20	CG	30 - 150 %
% TCMX	46		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	45		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-44

Phoenix I.D.: CF77620

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0073	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	95		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-44

Phoenix I.D.: CF77620

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.39	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.44	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.41	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.31	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.3	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.41	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.88	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.36	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.38	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.78	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	81		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		SW5035A

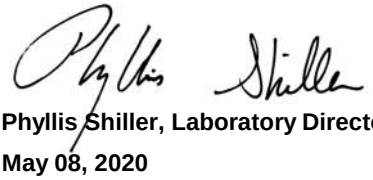
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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



Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	15:35
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77621

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-45

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Arsenic	4.35	0.71	mg/Kg	1	04/24/20	CPP	SW6010D
Barium	71.1	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Cadmium	1.11	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Chromium	20.8	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Mercury	0.10	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	208	0.35	mg/Kg	1	04/24/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/24/20	CPP	SW6010D
SPLP Lead	0.031	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	84		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/MA	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/23/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	88		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0049	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.081	0.039	mg/Kg	10	04/24/20	CG	SW8081B
4,4' -DDT	0.17	0.039	mg/Kg	10	04/24/20	CG	SW8081B

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-45

Phoenix I.D.: CF77621

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	60		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	66		%	2	04/23/20	CG	30 - 150 %
% TCMX	54		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.021	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-45

Phoenix I.D.: CF77621

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.021	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.21	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Benzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0025	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0082	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0082	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0082	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0082	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0082	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0041	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	04/23/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-45

Phoenix I.D.: CF77621

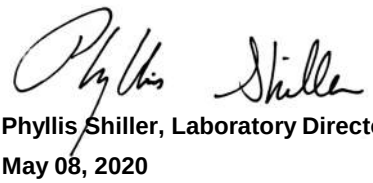
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	96		%	1	04/23/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	0.41	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	0.5	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	0.47	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	0.38	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	0.37	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	0.43	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	0.96	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.42	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	0.37	0.27	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	0.88	0.27	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	64		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	86		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/20/20	14:35
Location Code:	TRC-NONDAS	Received by:	CP	04/22/20	17:45
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF77604
Phoenix ID: CF77622

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-39B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Arsenic	1.30	0.77	mg/Kg	1	04/24/20	CPP	SW6010D
Barium	120	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Cadmium	1.50	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Chromium	46.7	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/23/20	RS	SW7471B
Lead	52.5	0.39	mg/Kg	1	04/24/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/24/20	CPP	SW6010D
Percent Solid	90		%		04/22/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/22/20	LL/E	SW3545A
Soil Extraction SVOA PAH	Completed				04/22/20	BR/EE	SW3545A
Extraction of CT ETPH	Completed				04/23/20	VV/MA	SW3545A
Mercury Digestion	Completed				04/23/20	RA/RA	SW7471B
Total Metals Digest	Completed				04/23/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	90	54	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	104		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.002	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDE	0.028	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
4,4' -DDT	0.044	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Alachlor	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-39B

Phoenix I.D.: CF77622

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan I	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan II	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endosulfan sulfate	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin aldehyde	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Endrin ketone	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Heptachlor epoxide	ND	0.0074	mg/Kg	2	04/23/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/23/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/23/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	61		%	2	04/23/20	CG	30 - 150 %
% DCBP (Confirmation)	51		%	2	04/23/20	CG	30 - 150 %
% TCMX	58		%	2	04/23/20	CG	30 - 150 %
% TCMX (Confirmation)	55		%	2	04/23/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/23/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/23/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/23/20	JLI	SW8260C
Acrylonitrile	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-39B

Phoenix I.D.: CF77622

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromochloromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromodichloromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromoform	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Bromomethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon Disulfide	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Chlorobenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Chloroform	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Chloromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/23/20	JLI	SW8260C
Dibromomethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Ethylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Isopropylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
m&p-Xylene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/23/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Methylene chloride	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Naphthalene	0.011	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
n-Butylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
n-Propylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
o-Xylene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Styrene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrachloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Toluene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Total Xylenes	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Trichloroethene	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0071	mg/Kg	1	04/23/20	JLI	SW8260C
Vinyl chloride	ND	0.0036	mg/Kg	1	04/23/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/23/20	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	04/23/20	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	04/23/20	JLI	70 - 130 %
% Toluene-d8	99		%	1	04/23/20	JLI	70 - 130 %

Project ID: CONN DOT RT 15 MERRITT PARKWAY
Client ID: SB-39B

Phoenix I.D.: CF77622

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Acenaphthylene	0.82	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Anthracene	0.48	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benz(a)anthracene	1.8	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(a)pyrene	1.8	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(b)fluoranthene	1.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(ghi)perylene	1.2	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Benzo(k)fluoranthene	1.2	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Chrysene	1.7	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Dibenz(a,h)anthracene	0.31	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluoranthene	3.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	1.2	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Phenanthrene	1.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
Pyrene	3.4	0.26	mg/Kg	1	04/23/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	04/23/20	WB	30 - 130 %
% Nitrobenzene-d5	55		%	1	04/23/20	WB	30 - 130 %
% Terphenyl-d14	97		%	1	04/23/20	WB	30 - 130 %
Field Extraction	Completed				04/20/20		SW5035A

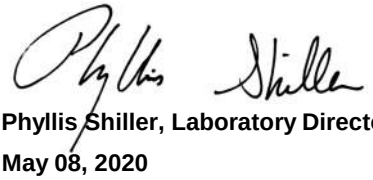
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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



Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
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QA/QC Report

May 08, 2020

QA/QC Data

SDG I.D.: GCF77604

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 527397 (mg/kg), QC Sample No: CF77246 (CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622)													
Mercury - Soil	BRL	0.03	<0.03	<0.02	NC	115	91.0	23.3	99.5	105	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 527399 (mg/L), QC Sample No: CF77400 (CF77606)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	110			94.8			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 527396 (mg/kg), QC Sample No: CF77594 2X (CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	102	90.0	12.5	111	108	2.7	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 527326 (mg/kg), QC Sample No: CF77136 (CF77607)													
ICP Metals - Soil													
Arsenic	BRL	0.67	1.22	1.12	NC	101	108	6.7	97.3			75 - 125	35
Barium	BRL	0.33	33.4	29.9	11.1	104	107	2.8	99.5			75 - 125	35
Cadmium	BRL	0.33	0.53	0.47	NC	98.0	102	4.0	97.2			75 - 125	35
Chromium	BRL	0.33	8.99	8.28	8.20	101	104	2.9	96.4			75 - 125	35
Lead	BRL	0.33	24.8	19.0	26.5	101	104	2.9	101			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.3	NC	98.8	102	3.2	93.9			75 - 125	35
Silver	BRL	0.33	<0.35	<0.32	NC	97.8	102	4.2	99.6			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 527334 (mg/kg), QC Sample No: CF77608 (CF77608, CF77609, CF77610, CF77611, CF77612, CF77613, CF77614, CF77615, CF77616, CF77617, CF77618)													
ICP Metals - Soil													
Arsenic	BRL	0.67	3.10	4.13	NC	108	102	5.7	86.6			75 - 125	35
Barium	BRL	0.33	62.9	61.2	2.70	113	112	0.9	102			75 - 125	35
Cadmium	BRL	0.33	0.82	0.74	NC	95.7	91.8	4.2	84.9			75 - 125	35
Chromium	BRL	0.33	30.9	27.5	11.6	104	98.8	5.1	88.3			75 - 125	35
Lead	BRL	0.33	186	257	32.1	103	102	1.0	82.4			75 - 125	35
Selenium	BRL	1.3	<1.5	<1.4	NC	107	101	5.8	88.2			75 - 125	35
Silver	BRL	0.33	<0.36	<0.34	NC	107	97.7	9.1	85.7			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 529021 (mg/L), QC Sample No: CF77609 (CF77609, CF77610, CF77612, CF77617, CF77621)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.004	0.006	0.005	NC	103	103	0.0	110			80 - 120	20
Lead	BRL	0.010	0.297	0.249	17.6	98.9	98.4	0.5	97.7			80 - 120	20

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 527463 (mg/kg), QC Sample No: CF77619 (CF77619, CF77620, CF77621, CF77622)														
ICP Metals - Soil														
Arsenic	BRL	0.67	2.86	2.99	NC	103	105	1.9	96.5			75 - 125	35	
Barium	BRL	0.67	54.6	84.1	42.5	103	102	1.0	123			75 - 125	35	r
Cadmium	BRL	0.33	0.90	1.25	NC	99.1	96.7	2.5	93.9			75 - 125	35	
Chromium	BRL	0.33	25.8	52.3	67.9	103	102	1.0	104			75 - 125	35	r
Lead	BRL	0.33	249	241	3.30	99.9	100	0.1	95.6			75 - 125	35	
Selenium	BRL	1.3	<1.4	<1.6	NC	99.9	102	2.1	94.2			75 - 125	35	
Silver	BRL	0.33	<0.35	<0.39	NC	95.6	96.9	1.4	92.1			75 - 125	35	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 527475 (mg/L), QC Sample No: CF77841 (CF77606)														
ICP Metals - Aqueous														
Arsenic	BRL	0.004	<0.004	<0.004	NC	96.4	94.0	2.5	97.7	99.8	2.1	80 - 120	20	
Barium	BRL	0.002	0.063	0.062	1.60	96.1	93.3	3.0	96.1	98.7	2.7	80 - 120	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	95.5	92.8	2.9	95.2	97.2	2.1	80 - 120	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	98.9	96.5	2.5	98.5	102	3.5	80 - 120	20	
Lead	BRL	0.002	<0.002	<0.002	NC	93.0	91.1	2.1	92.0	95.5	3.7	80 - 120	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	93.4	91.3	2.3	94.0	95.7	1.8	80 - 120	20	
Silver	BRL	0.001	<0.001	<0.001	NC	98.7	96.2	2.6	99.2	99.1	0.1	80 - 120	20	
Comment:														
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														

r = This parameter is outside laboratory RPD specified recovery limits.

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QA/QC Report

May 08, 2020

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 527337 (mg/Kg), QC Sample No: CF77592 (CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	81	96	16.9	119			60 - 120	30
% n-Pentacosane	62	%	72	79	9.3	90			50 - 150	30
Comment:										
There is no MSD for this batch.										
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 527491 (mg/L), QC Sample No: CF77606 (CF77606)										
TPH by GC (Extractable Products) - Ground Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	106	111	4.6				60 - 120	30
% n-Pentacosane	79	%	77	84	8.7				50 - 150	20
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 527440 (mg/Kg), QC Sample No: CF77614 (CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	114	121	6.0	111	95	15.5	60 - 120	30
% n-Pentacosane	80	%	95	98	3.1	95	85	11.1	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 527336 (mg/Kg), QC Sample No: CF72206 2X (CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622)										
Pesticides - Soil										
4,4' -DDD	ND	0.0017	60	45	28.6	44	39	12.0	40 - 140	30
4,4' -DDE	ND	0.0017	63	51	21.1	47	37	23.8	40 - 140	30
4,4' -DDT	ND	0.0017	55	44	22.2	41	36	13.0	40 - 140	30
a-BHC	ND	0.001	55	43	24.5	43	35	20.5	40 - 140	30
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	0.001	54	45	18.2	47	41	13.6	40 - 140	30
b-BHC	ND	0.001	61	53	14.0	48	41	15.7	40 - 140	30
Chlordane	ND	0.033	60	49	20.2	45	39	14.3	40 - 140	30
d-BHC	ND	0.0033	52	43	18.9	40	33	19.2	40 - 140	30
Dieldrin	ND	0.001	57	47	19.2	42	37	12.7	40 - 140	30
Endosulfan I	ND	0.0033	51	42	19.4	38	36	5.4	40 - 140	30
Endosulfan II	ND	0.0033	58	47	21.0	45	38	16.9	40 - 140	30
Endosulfan sulfate	ND	0.0033	63	51	21.1	47	40	16.1	40 - 140	30
Endrin	ND	0.0033	56	48	15.4	44	37	17.3	40 - 140	30
Endrin aldehyde	ND	0.0033	51	40	24.2	41	35	15.8	40 - 140	30
Endrin ketone	ND	0.0033	56	45	21.8	43	36	17.7	40 - 140	30

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
g-BHC	ND	0.001	71	58	20.2	54	47	13.9	40 - 140	30	
Heptachlor	ND	0.0033	56	47	17.5	53	41	25.5	40 - 140	30	
Heptachlor epoxide	ND	0.0033	56	47	17.5	41	37	10.3	40 - 140	30	
Methoxychlor	ND	0.0033	60	50	18.2	47	41	13.6	40 - 140	30	
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	54	%	55	45	20.0	42	36	15.4	30 - 150	30	
% DCBP (Confirmation)	51	%	52	41	23.7	44	38	14.6	30 - 150	30	
% TCMX	57	%	55	42	26.8	41	37	10.3	30 - 150	30	
% TCMX (Confirmation)	55	%	54	40	29.8	45	40	11.8	30 - 150	30	

QA/QC Batch 527487 (ug/L), QC Sample No: CF77202 (CF77606)

Pesticides - Ground Water

4,4' -DDD	ND	0.003	95	110	14.6				40 - 140	20	
4,4' -DDE	ND	0.003	73	83	12.8				40 - 140	20	
4,4' -DDT	ND	0.003	79	82	3.7				40 - 140	20	
a-BHC	ND	0.002	71	71	0.0				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	65	71	8.8				40 - 140	20	
b-BHC	ND	0.002	81	85	4.8				40 - 140	20	
Chlordane	ND	0.050	81	89	9.4				40 - 140	20	
d-BHC	ND	0.005	34	42	21.1				40 - 140	20	l,r
Dieldrin	ND	0.002	82	80	2.5				40 - 140	20	
Endosulfan I	ND	0.005	80	92	14.0				40 - 140	20	
Endosulfan II	ND	0.005	87	86	1.2				40 - 140	20	
Endosulfan sulfate	ND	0.005	81	77	5.1				40 - 140	20	
Endrin	ND	0.005	82	90	9.3				40 - 140	20	
Endrin aldehyde	ND	0.005	82	93	12.6				40 - 140	20	
Endrin ketone	ND	0.005	84	81	3.6				40 - 140	20	
g-BHC	ND	0.002	92	77	17.8				40 - 140	20	
Heptachlor	ND	0.005	71	82	14.4				40 - 140	20	
Heptachlor epoxide	ND	0.005	78	88	12.0				40 - 140	20	
Methoxychlor	ND	0.005	95	103	8.1				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	69	%	72	68	5.7				30 - 150	20	
% DCBP (Confirmation)	62	%	58	83	35.5				30 - 150	20	r
% TCMX	63	%	69	75	8.3				30 - 150	20	
% TCMX (Confirmation)	61	%	62	82	27.8				30 - 150	20	r

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 527335 (mg/Kg), QC Sample No: CF77594 2X (CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613)

Pesticides - Soil

4,4' -DDD	ND	0.0017	72	65	10.2	58	53	9.0	40 - 140	30	
4,4' -DDE	ND	0.0017	67	62	7.8	69	62	10.7	40 - 140	30	
4,4' -DDT	ND	0.0017	67	60	11.0	80	71	11.9	40 - 140	30	
a-BHC	ND	0.001	56	51	9.3	46	38	19.0	40 - 140	30	
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	0.001	65	61	6.3	52	45	14.4	40 - 140	30	
b-BHC	ND	0.001	72	67	7.2	61	52	15.9	40 - 140	30	
Chlordane	ND	0.033	67	62	7.8	53	46	14.1	40 - 140	30	
d-BHC	ND	0.0033	66	61	7.9	51	45	12.5	40 - 140	30	
Dieldrin	ND	0.001	69	63	9.1	53	48	9.9	40 - 140	30	

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Endosulfan I	ND	0.0033	70	64	9.0	54	49	9.7	40 - 140	30
Endosulfan II	ND	0.0033	73	66	10.1	55	50	9.5	40 - 140	30
Endosulfan sulfate	ND	0.0033	70	63	10.5	54	52	3.8	40 - 140	30
Endrin	ND	0.0033	59	53	10.7	50	45	10.5	40 - 140	30
Endrin aldehyde	ND	0.0033	58	51	12.8	45	42	6.9	40 - 140	30
Endrin ketone	ND	0.0033	70	64	9.0	53	48	9.9	40 - 140	30
g-BHC	ND	0.001	64	58	9.8	50	44	12.8	40 - 140	30
Heptachlor	ND	0.0033	63	58	8.3	51	45	12.5	40 - 140	30
Heptachlor epoxide	ND	0.0033	68	63	7.6	55	45	20.0	40 - 140	30
Methoxychlor	ND	0.0033	66	60	9.5	54	54	0.0	40 - 140	30
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	48	%	69	60	14.0	50	47	6.2	30 - 150	30
% DCBP (Confirmation)	54	%	75	70	6.9	55	49	11.5	30 - 150	30
% TCMX	43	%	58	53	9.0	45	42	6.9	30 - 150	30
% TCMX (Confirmation)	44	%	61	56	8.5	48	40	18.2	30 - 150	30

QA/QC Batch 527289 (mg/Kg), QC Sample No: CF77080 (CF77607, CF77608, CF77609, CF77610, CF77611)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	0.23	64	56	13.3	58	71	20.2	40 - 140	30
Acenaphthene	ND	0.23	65	58	11.4	56	70	22.2	30 - 130	30
Acenaphthylene	ND	0.23	64	56	13.3	57	70	20.5	40 - 140	30
Anthracene	ND	0.23	66	61	7.9	59	69	15.6	40 - 140	30
Benz(a)anthracene	ND	0.23	70	63	10.5	63	72	13.3	40 - 140	30
Benzo(a)pyrene	ND	0.23	70	65	7.4	64	74	14.5	40 - 140	30
Benzo(b)fluoranthene	ND	0.23	85	81	4.8	77	90	15.6	40 - 140	30
Benzo(ghi)perylene	ND	0.23	71	60	16.8	61	69	12.3	40 - 140	30
Benzo(k)fluoranthene	ND	0.23	53	48	9.9	48	54	11.8	40 - 140	30
Chrysene	ND	0.23	69	63	9.1	62	70	12.1	40 - 140	30
Dibenz(a,h)anthracene	ND	0.23	74	65	12.9	64	75	15.8	40 - 140	30
Fluoranthene	ND	0.23	67	64	4.6	59	69	15.6	40 - 140	30
Fluorene	ND	0.23	70	63	10.5	60	74	20.9	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	0.23	69	60	14.0	62	70	12.1	40 - 140	30
Naphthalene	ND	0.23	60	52	14.3	55	67	19.7	40 - 140	30
Phenanthrene	ND	0.23	66	61	7.9	59	70	17.1	40 - 140	30
Pyrene	ND	0.23	70	68	2.9	62	72	14.9	30 - 130	30
% 2-Fluorobiphenyl	54	%	60	51	16.2	52	64	20.7	30 - 130	30
% Nitrobenzene-d5	46	%	56	46	19.6	50	60	18.2	30 - 130	30
% Terphenyl-d14	78	%	78	73	6.6	66	78	16.7	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 527290 (mg/Kg), QC Sample No: CF77136 (CF77612, CF77613, CF77614, CF77615, CF77616)

Semivolatiles - Soil

2-Methylnaphthalene	ND	0.23	71	66	7.3	70	75	6.9	40 - 140	30
Acenaphthene	ND	0.23	71	70	1.4	73	77	5.3	30 - 130	30
Acenaphthylene	ND	0.13	67	67	0.0	70	74	5.6	40 - 140	30
Anthracene	ND	0.23	71	70	1.4	72	75	4.1	40 - 140	30
Benz(a)anthracene	ND	0.23	75	73	2.7	73	75	2.7	40 - 140	30
Benzo(a)pyrene	ND	0.13	77	75	2.6	77	80	3.8	40 - 140	30
Benzo(b)fluoranthene	ND	0.16	88	85	3.5	86	89	3.4	40 - 140	30
Benzo(ghi)perylene	ND	0.23	69	66	4.4	71	71	0.0	40 - 140	30
Benzo(k)fluoranthene	ND	0.23	58	56	3.5	57	60	5.1	40 - 140	30
Chrysene	ND	0.23	73	71	2.8	74	77	4.0	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Dibenz(a,h)anthracene	ND	0.13	73	71	2.8	74	76	2.7	40 - 140	30	
Fluoranthene	ND	0.23	73	71	2.8	70	73	4.2	40 - 140	30	
Fluorene	ND	0.23	71	69	2.9	71	75	5.5	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	72	69	4.3	71	71	0.0	40 - 140	30	
Naphthalene	ND	0.23	62	59	5.0	63	68	7.6	40 - 140	30	
Phenanthrene	ND	0.13	71	70	1.4	72	75	4.1	40 - 140	30	
Pyrene	ND	0.23	75	73	2.7	72	74	2.7	30 - 130	30	
% 2-Fluorobiphenyl	58	%	61	60	1.7	61	66	7.9	30 - 130	30	
% Nitrobenzene-d5	59	%	70	64	9.0	66	71	7.3	30 - 130	30	
% Terphenyl-d14	79	%	81	77	5.1	75	78	3.9	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527310 (mg/Kg), QC Sample No: CF77198 (CF77617, CF77618, CF77619, CF77620, CF77621, CF77622)

Semivolatiles - Soil

2-Methylnaphthalene	ND	0.23	64	64	0.0	68	72	5.7	40 - 140	30	
Acenaphthene	ND	0.23	66	61	7.9	66	64	3.1	30 - 130	30	
Acenaphthylene	ND	0.13	67	64	4.6	44	45	2.2	40 - 140	30	
Anthracene	ND	0.23	71	68	4.3	53	53	0.0	40 - 140	30	
Benz(a)anthracene	ND	0.23	73	70	4.2	72	55	26.8	40 - 140	30	
Benzo(a)pyrene	ND	0.13	79	74	6.5	64	65	1.6	40 - 140	30	
Benzo(b)fluoranthene	ND	0.16	90	85	5.7	81	99	20.0	40 - 140	30	
Benzo(ghi)perylene	ND	0.23	78	73	6.6	59	61	3.3	40 - 140	30	
Benzo(k)fluoranthene	ND	0.23	60	55	8.7	33	27	20.0	40 - 140	30	m
Chrysene	ND	0.23	71	69	2.9	52	41	23.7	40 - 140	30	
Dibenz(a,h)anthracene	ND	0.13	77	71	8.1	81	80	1.2	40 - 140	30	
Fluoranthene	ND	0.23	76	72	5.4	NC	NC	NC	40 - 140	30	
Fluorene	ND	0.23	70	65	7.4	68	67	1.5	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	74	70	5.6	56	61	8.5	40 - 140	30	
Naphthalene	ND	0.23	59	58	1.7	57	60	5.1	40 - 140	30	
Phenanthrene	ND	0.13	71	67	5.8	46	42	9.1	40 - 140	30	
Pyrene	ND	0.23	78	74	5.3	33	NC	NC	30 - 130	30	
% 2-Fluorobiphenyl	62	%	64	57	11.6	54	53	1.9	30 - 130	30	
% Nitrobenzene-d5	55	%	55	55	0.0	56	63	11.8	30 - 130	30	
% Terphenyl-d14	81	%	81	76	6.4	72	76	5.4	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527673 (ug/L), QC Sample No: CF77400 (CF77606)

Semivolatiles by SIM, PAH - Ground Water

2-Methylnaphthalene	ND	0.50	50	50	0.0				30 - 130	20	
Acenaphthene	ND	0.50	52	54	3.8				30 - 130	20	
Acenaphthylene	ND	0.10	53	55	3.7				30 - 130	20	
Anthracene	ND	0.10	54	56	3.6				30 - 130	20	
Benz(a)anthracene	ND	0.02	67	69	2.9				30 - 130	20	
Benzo(a)pyrene	ND	0.02	67	68	1.5				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	79	76	3.9				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	57	58	1.7				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	44	47	6.6				30 - 130	20	
Chrysene	ND	0.02	52	54	3.8				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	69	70	1.4				30 - 130	20	
Fluoranthene	ND	0.50	55	58	5.3				30 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Fluorene	ND	0.10	56	56	0.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	66	67	1.5				30 - 130	20
Naphthalene	ND	0.50	43	40	7.2				30 - 130	20
Phenanthrene	ND	0.06	56	58	3.5				30 - 130	20
Pyrene	ND	0.07	59	61	3.3				30 - 130	20
% 2-Fluorobiphenyl	49	%	47	49	4.2				30 - 130	20
% Nitrobenzene-d5	43	%	39	44	12.0				30 - 130	20
% Terphenyl-d14	60	%	57	57	0.0				30 - 130	20

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527441 (mg/Kg), QC Sample No: CF76926 (CF77604, CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613, CF77614, CF77615, CF77616, CF77617, CF77618, CF77619)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	97	97	0.0				70 - 130	30
1,1,1-Trichloroethane	ND	0.005	103	103	0.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.003	95	94	1.1				70 - 130	30
1,1,2-Trichloroethane	ND	0.005	95	94	1.1				70 - 130	30
1,1-Dichloroethane	ND	0.005	101	101	0.0				70 - 130	30
1,1-Dichloroethene	ND	0.005	107	108	0.9				70 - 130	30
1,1-Dichloropropene	ND	0.005	95	96	1.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	92	88	4.4				70 - 130	30
1,2,3-Trichloropropane	ND	0.005	92	91	1.1				70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	93	90	3.3				70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	92	91	1.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	104	103	1.0				70 - 130	30
1,2-Dibromoethane	ND	0.005	94	94	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	0.005	89	88	1.1				70 - 130	30
1,2-Dichloroethane	ND	0.005	95	95	0.0				70 - 130	30
1,2-Dichloropropane	ND	0.005	96	96	0.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	93	92	1.1				70 - 130	30
1,3-Dichlorobenzene	ND	0.005	91	89	2.2				70 - 130	30
1,3-Dichloropropane	ND	0.005	92	91	1.1				70 - 130	30
1,4-Dichlorobenzene	ND	0.005	89	88	1.1				70 - 130	30
2,2-Dichloropropane	ND	0.005	107	107	0.0				70 - 130	30
2-Chlorotoluene	ND	0.005	91	90	1.1				70 - 130	30
2-Hexanone	ND	0.025	120	117	2.5				70 - 130	30
2-Isopropyltoluene	ND	0.005	106	105	0.9				70 - 130	30
4-Chlorotoluene	ND	0.005	90	89	1.1				70 - 130	30
4-Methyl-2-pentanone	ND	0.025	120	117	2.5				70 - 130	30
Acetone	ND	0.01	137	133	3.0				70 - 130	30
Acrylonitrile	ND	0.005	122	121	0.8				70 - 130	30
Benzene	ND	0.001	100	99	1.0				70 - 130	30
Bromobenzene	ND	0.005	92	90	2.2				70 - 130	30
Bromochloromethane	ND	0.005	105	103	1.9				70 - 130	30
Bromodichloromethane	ND	0.005	101	100	1.0				70 - 130	30
Bromoform	ND	0.005	105	103	1.9				70 - 130	30
Bromomethane	ND	0.005	135	139	2.9				70 - 130	30
Carbon Disulfide	ND	0.005	116	117	0.9				70 - 130	30
Carbon tetrachloride	ND	0.005	108	110	1.8				70 - 130	30
Chlorobenzene	ND	0.005	92	92	0.0				70 - 130	30
Chloroethane	ND	0.005	116	115	0.9				70 - 130	30

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chloroform	ND	0.005	101	100	1.0				70 - 130	30	
Chloromethane	ND	0.005	113	112	0.9				70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	103	103	0.0				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	100	99	1.0				70 - 130	30	
Dibromochloromethane	ND	0.003	103	101	2.0				70 - 130	30	
Dibromomethane	ND	0.005	98	96	2.1				70 - 130	30	
Dichlorodifluoromethane	ND	0.005	104	102	1.9				70 - 130	30	
Ethylbenzene	ND	0.001	94	95	1.1				70 - 130	30	
Hexachlorobutadiene	ND	0.005	96	95	1.0				70 - 130	30	
Isopropylbenzene	ND	0.001	92	92	0.0				70 - 130	30	
m&p-Xylene	ND	0.002	94	95	1.1				70 - 130	30	
Methyl ethyl ketone	ND	0.005	130	127	2.3				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	113	113	0.0				70 - 130	30	
Methylene chloride	ND	0.005	96	95	1.0				70 - 130	30	
Naphthalene	ND	0.005	96	93	3.2				70 - 130	30	
n-Butylbenzene	ND	0.001	97	96	1.0				70 - 130	30	
n-Propylbenzene	ND	0.001	92	92	0.0				70 - 130	30	
o-Xylene	ND	0.002	95	95	0.0				70 - 130	30	
p-Isopropyltoluene	ND	0.001	96	95	1.0				70 - 130	30	
sec-Butylbenzene	ND	0.001	99	99	0.0				70 - 130	30	
Styrene	ND	0.005	96	95	1.0				70 - 130	30	
tert-Butylbenzene	ND	0.001	93	93	0.0				70 - 130	30	
Tetrachloroethene	ND	0.005	97	97	0.0				70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	119	117	1.7				70 - 130	30	
Toluene	ND	0.001	99	98	1.0				70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	104	105	1.0				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	102	102	0.0				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	131	127	3.1				70 - 130	30	l
Trichloroethene	ND	0.005	96	96	0.0				70 - 130	30	
Trichlorofluoromethane	ND	0.005	120	119	0.8				70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	122	125	2.4				70 - 130	30	
Vinyl chloride	ND	0.005	122	121	0.8				70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	101	101	0.0				70 - 130	30	
% Bromofluorobenzene	100	%	101	102	1.0				70 - 130	30	
% Dibromofluoromethane	107	%	109	109	0.0				70 - 130	30	
% Toluene-d8	101	%	101	101	0.0				70 - 130	30	

Comment:

The Low Level MS/MSD are not reported for this batch.

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

QA/QC Batch 527441H (mg/Kg), QC Sample No: CF76926 50X (CF77605 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	0.25	90	90	0.0	86	89	3.4	70 - 130	30	
1,1,1-Trichloroethane	ND	0.25	91	92	1.1	93	95	2.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.25	86	88	2.3	88	88	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	0.25	88	89	1.1	89	89	0.0	70 - 130	30	
1,1-Dichloroethane	ND	0.25	93	93	0.0	95	95	0.0	70 - 130	30	
1,1-Dichloroethene	ND	0.25	58	57	1.7	67	65	3.0	70 - 130	30	l,m
1,1-Dichloropropene	ND	0.25	90	90	0.0	93	94	1.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.25	92	94	2.2	87	89	2.3	70 - 130	30	
1,2,3-Trichloropropane	ND	0.25	83	83	0.0	85	86	1.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.25	94	97	3.1	90	92	2.2	70 - 130	30	

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trimethylbenzene	ND	0.25	87	88	1.1	89	90	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.25	87	89	2.3	86	89	3.4	70 - 130	30	
1,2-Dibromoethane	ND	0.25	87	88	1.1	86	88	2.3	70 - 130	30	
1,2-Dichlorobenzene	ND	0.25	86	87	1.2	85	87	2.3	70 - 130	30	
1,2-Dichloroethane	ND	0.25	89	90	1.1	90	91	1.1	70 - 130	30	
1,2-Dichloropropane	ND	0.25	91	93	2.2	92	93	1.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.25	87	88	1.1	89	91	2.2	70 - 130	30	
1,3-Dichlorobenzene	ND	0.25	87	88	1.1	86	88	2.3	70 - 130	30	
1,3-Dichloropropane	ND	0.25	87	87	0.0	86	88	2.3	70 - 130	30	
1,4-Dichlorobenzene	ND	0.25	86	88	2.3	86	87	1.2	70 - 130	30	
2,2-Dichloropropane	ND	0.25	95	96	1.0	88	93	5.5	70 - 130	30	
2-Chlorotoluene	ND	0.25	85	86	1.2	87	89	2.3	70 - 130	30	
2-Hexanone	ND	1.3	105	102	2.9	100	104	3.9	70 - 130	30	
2-Isopropyltoluene	ND	0.25	99	100	1.0	102	104	1.9	70 - 130	30	
4-Chlorotoluene	ND	0.25	86	87	1.2	87	87	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	1.3	107	107	0.0	108	110	1.8	70 - 130	30	
Acetone	ND	0.5	79	75	5.2	86	91	5.6	70 - 130	30	
Acrylonitrile	ND	0.25	107	108	0.9	112	112	0.0	70 - 130	30	
Benzene	ND	0.25	94	94	0.0	95	97	2.1	70 - 130	30	
Bromobenzene	ND	0.25	86	87	1.2	87	88	1.1	70 - 130	30	
Bromochloromethane	ND	0.25	97	97	0.0	95	97	2.1	70 - 130	30	
Bromodichloromethane	ND	0.25	91	91	0.0	87	89	2.3	70 - 130	30	
Bromoform	ND	0.25	87	87	0.0	80	82	2.5	70 - 130	30	
Bromomethane	ND	0.25	85	85	0.0	85	90	5.7	70 - 130	30	
Carbon Disulfide	ND	0.25	60	60	0.0	67	67	0.0	70 - 130	30	l,m
Carbon tetrachloride	ND	0.25	90	90	0.0	86	90	4.5	70 - 130	30	
Chlorobenzene	ND	0.25	87	88	1.1	89	90	1.1	70 - 130	30	
Chloroethane	ND	0.25	41	39	5.0	44	44	0.0	70 - 130	30	l,m
Chloroform	ND	0.25	92	92	0.0	93	94	1.1	70 - 130	30	
Chloromethane	ND	0.25	104	105	1.0	106	108	1.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.25	96	96	0.0	96	98	2.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.25	92	92	0.0	86	89	3.4	70 - 130	30	
Dibromochloromethane	ND	0.15	90	90	0.0	85	87	2.3	70 - 130	30	
Dibromomethane	ND	0.25	89	90	1.1	89	89	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	0.25	98	101	3.0	96	99	3.1	70 - 130	30	
Ethylbenzene	ND	0.25	89	91	2.2	93	94	1.1	70 - 130	30	
Hexachlorobutadiene	ND	0.25	92	94	2.2	92	94	2.2	70 - 130	30	
Isopropylbenzene	ND	0.25	86	87	1.2	88	91	3.4	70 - 130	30	
m&p-Xylene	ND	0.25	89	91	2.2	92	93	1.1	70 - 130	30	
Methyl ethyl ketone	ND	0.25	114	109	4.5	107	109	1.9	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.25	103	104	1.0	102	104	1.9	70 - 130	30	
Methylene chloride	ND	0.25	76	78	2.6	82	81	1.2	70 - 130	30	
Naphthalene	ND	0.25	89	91	2.2	89	92	3.3	70 - 130	30	
n-Butylbenzene	ND	0.25	93	93	0.0	95	96	1.0	70 - 130	30	
n-Propylbenzene	ND	0.25	87	87	0.0	89	91	2.2	70 - 130	30	
o-Xylene	ND	0.25	91	91	0.0	91	93	2.2	70 - 130	30	
p-Isopropyltoluene	ND	0.25	90	91	1.1	93	95	2.1	70 - 130	30	
sec-Butylbenzene	ND	0.25	92	93	1.1	96	98	2.1	70 - 130	30	
Styrene	ND	0.25	92	92	0.0	92	93	1.1	70 - 130	30	
tert-Butylbenzene	ND	0.25	86	86	0.0	89	91	2.2	70 - 130	30	
Tetrachloroethene	ND	0.25	93	94	1.1	94	96	2.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.25	105	105	0.0	110	110	0.0	70 - 130	30	
Toluene	ND	0.25	94	94	0.0	96	97	1.0	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,2-Dichloroethene	ND	0.25	88	89	1.1	94	94	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.25	94	94	0.0	86	89	3.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.25	111	111	0.0	101	103	2.0	70 - 130	30	
Trichloroethene	ND	0.25	90	91	1.1	91	94	3.2	70 - 130	30	
Trichlorofluoromethane	ND	0.25	29	28	3.5	32	32	0.0	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	0.25	75	74	1.3	87	85	2.3	70 - 130	30	
Vinyl chloride	ND	0.25	113	116	2.6	117	120	2.5	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	101	101	0.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	100	%	102	102	0.0	101	101	0.0	70 - 130	30	
% Dibromofluoromethane	101	%	105	105	0.0	100	99	1.0	70 - 130	30	
% Toluene-d8	101	%	101	102	1.0	101	101	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 527451 (mg/Kg), QC Sample No: CF77135 (CF77620, CF77621, CF77622)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	107	109	1.9				70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	101	101	0.0				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	91	90	1.1				70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	99	98	1.0				70 - 130	30	
1,1-Dichloroethane	ND	0.005	113	118	4.3				70 - 130	30	
1,1-Dichloroethene	ND	0.005	122	125	2.4				70 - 130	30	
1,1-Dichloropropene	ND	0.005	92	95	3.2				70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	104	104	0.0				70 - 130	30	
1,2,3-Trichloropropane	ND	0.005	90	90	0.0				70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	100	102	2.0				70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.001	92	95	3.2				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	115	113	1.8				70 - 130	30	
1,2-Dibromoethane	ND	0.005	98	99	1.0				70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	91	94	3.2				70 - 130	30	
1,2-Dichloroethane	ND	0.005	102	103	1.0				70 - 130	30	
1,2-Dichloropropane	ND	0.005	93	95	2.1				70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	94	97	3.1				70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	94	96	2.1				70 - 130	30	
1,3-Dichloropropane	ND	0.005	90	90	0.0				70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	91	93	2.2				70 - 130	30	
2,2-Dichloropropane	ND	0.005	96	97	1.0				70 - 130	30	
2-Chlorotoluene	ND	0.005	90	92	2.2				70 - 130	30	
2-Hexanone	ND	0.025	105	103	1.9				70 - 130	30	
2-Isopropyltoluene	ND	0.005	100	104	3.9				70 - 130	30	
4-Chlorotoluene	ND	0.005	90	91	1.1				70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	109	105	3.7				70 - 130	30	
Acetone	ND	0.01	130	121	7.2				70 - 130	30	
Acrylonitrile	ND	0.005	117	121	3.4				70 - 130	30	
Benzene	ND	0.001	95	97	2.1				70 - 130	30	
Bromobenzene	ND	0.005	95	98	3.1				70 - 130	30	
Bromochloromethane	ND	0.005	101	100	1.0				70 - 130	30	
Bromodichloromethane	ND	0.005	106	108	1.9				70 - 130	30	
Bromoform	ND	0.005	122	121	0.8				70 - 130	30	
Bromomethane	ND	0.005	146	141	3.5				70 - 130	30	l
Carbon Disulfide	ND	0.005	125	131	4.7				70 - 130	30	l
Carbon tetrachloride	ND	0.005	107	108	0.9				70 - 130	30	

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chlorobenzene	ND	0.005	93	96	3.2				70 - 130	30
Chloroethane	ND	0.005	116	122	5.0				70 - 130	30
Chloroform	ND	0.005	95	95	0.0				70 - 130	30
Chloromethane	ND	0.005	106	106	0.0				70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	104	131	23.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.005	95	97	2.1				70 - 130	30
Dibromochloromethane	ND	0.003	122	123	0.8				70 - 130	30
Dibromomethane	ND	0.005	96	96	0.0				70 - 130	30
Dichlorodifluoromethane	ND	0.005	93	92	1.1				70 - 130	30
Ethylbenzene	ND	0.001	95	99	4.1				70 - 130	30
Hexachlorobutadiene	ND	0.005	99	104	4.9				70 - 130	30
Isopropylbenzene	ND	0.001	91	94	3.2				70 - 130	30
m&p-Xylene	ND	0.002	94	96	2.1				70 - 130	30
Methyl ethyl ketone	ND	0.005	101	99	2.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	123	123	0.0				70 - 130	30
Methylene chloride	ND	0.005	109	107	1.9				70 - 130	30
Naphthalene	ND	0.005	116	114	1.7				70 - 130	30
n-Butylbenzene	ND	0.001	90	94	4.3				70 - 130	30
n-Propylbenzene	ND	0.001	91	94	3.2				70 - 130	30
o-Xylene	ND	0.002	96	98	2.1				70 - 130	30
p-Isopropyltoluene	ND	0.001	95	99	4.1				70 - 130	30
sec-Butylbenzene	ND	0.001	96	100	4.1				70 - 130	30
Styrene	ND	0.005	98	100	2.0				70 - 130	30
tert-Butylbenzene	ND	0.001	94	98	4.2				70 - 130	30
Tetrachloroethene	ND	0.005	104	105	1.0				70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	98	95	3.1				70 - 130	30
Toluene	ND	0.001	99	101	2.0				70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	119	122	2.5				70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	99	101	2.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	104	103	1.0				70 - 130	30
Trichloroethene	ND	0.005	99	103	4.0				70 - 130	30
Trichlorofluoromethane	ND	0.005	122	125	2.4				70 - 130	30
Trichlorotrifluoroethane	ND	0.005	125	135	7.7				70 - 130	30
Vinyl chloride	ND	0.005	117	116	0.9				70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	100	99	1.0				70 - 130	30
% Bromofluorobenzene	96	%	100	100	0.0				70 - 130	30
% Dibromofluoromethane	102	%	104	105	1.0				70 - 130	30
% Toluene-d8	99	%	100	100	0.0				70 - 130	30

Comment:

The Low Level MS/MSD are not reported for this batch.

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

QA/QC Batch 527455 (ug/L), QC Sample No: CF77263 (CF77606)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	94	97	3.1				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	92	95	3.2				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	93	97	4.2				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	87	92	5.6				70 - 130	30
1,1-Dichloroethane	ND	1.0	92	98	6.3				70 - 130	30
1,1-Dichloroethene	ND	1.0	94	97	3.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	94	99	5.2				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	96	102	6.1				70 - 130	30

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichloropropane	ND	1.0	90	93	3.3				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	97	102	5.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	98	103	5.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	83	90	8.1				70 - 130	30
1,2-Dibromoethane	ND	1.0	92	94	2.2				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	92	94	2.2				70 - 130	30
1,2-Dichloroethane	ND	1.0	91	93	2.2				70 - 130	30
1,2-Dichloropropane	ND	1.0	96	99	3.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	100	104	3.9				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	94	98	4.2				70 - 130	30
1,3-Dichloropropane	ND	1.0	92	96	4.3				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	91	94	3.2				70 - 130	30
2,2-Dichloropropane	ND	1.0	99	100	1.0				70 - 130	30
2-Chlorotoluene	ND	1.0	95	100	5.1				70 - 130	30
2-Hexanone	ND	5.0	95	102	7.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	101	104	2.9				70 - 130	30
4-Chlorotoluene	ND	1.0	96	98	2.1				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	96	108	11.8				70 - 130	30
Acetone	ND	5.0	110	102	7.5				70 - 130	30
Acrylonitrile	ND	5.0	93	94	1.1				70 - 130	30
Benzene	ND	0.70	100	104	3.9				70 - 130	30
Bromobenzene	ND	1.0	97	99	2.0				70 - 130	30
Bromochloromethane	ND	1.0	94	97	3.1				70 - 130	30
Bromodichloromethane	ND	0.50	94	98	4.2				70 - 130	30
Bromoform	ND	1.0	92	96	4.3				70 - 130	30
Bromomethane	ND	1.0	144	150	4.1				70 - 130	30
Carbon Disulfide	ND	1.0	98	100	2.0				70 - 130	30
Carbon tetrachloride	ND	1.0	95	99	4.1				70 - 130	30
Chlorobenzene	ND	1.0	94	98	4.2				70 - 130	30
Chloroethane	ND	1.0	93	97	4.2				70 - 130	30
Chloroform	ND	1.0	94	93	1.1				70 - 130	30
Chloromethane	ND	1.0	112	115	2.6				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	100	98	2.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	96	101	5.1				70 - 130	30
Dibromochloromethane	ND	0.50	98	100	2.0				70 - 130	30
Dibromomethane	ND	1.0	88	93	5.5				70 - 130	30
Dichlorodifluoromethane	ND	1.0	122	125	2.4				70 - 130	30
Ethylbenzene	ND	1.0	102	106	3.8				70 - 130	30
Hexachlorobutadiene	ND	0.40	98	103	5.0				70 - 130	30
Isopropylbenzene	ND	1.0	101	105	3.9				70 - 130	30
m&p-Xylene	ND	1.0	98	104	5.9				70 - 130	30
Methyl ethyl ketone	ND	5.0	100	112	11.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	88	88	0.0				70 - 130	30
Methylene chloride	ND	1.0	86	88	2.3				70 - 130	30
Naphthalene	ND	1.0	102	110	7.5				70 - 130	30
n-Butylbenzene	ND	1.0	103	106	2.9				70 - 130	30
n-Propylbenzene	ND	1.0	98	102	4.0				70 - 130	30
o-Xylene	ND	1.0	103	108	4.7				70 - 130	30
p-Isopropyltoluene	ND	1.0	104	108	3.8				70 - 130	30
sec-Butylbenzene	ND	1.0	108	112	3.6				70 - 130	30
Styrene	ND	1.0	102	106	3.8				70 - 130	30
tert-Butylbenzene	ND	1.0	101	104	2.9				70 - 130	30
Tetrachloroethene	ND	1.0	94	97	3.1				70 - 130	30

QA/QC Data

SDG I.D.: GCF77604

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrahydrofuran (THF)	ND	2.5	95	92	3.2				70 - 130	30
Toluene	ND	1.0	98	103	5.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	94	96	2.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	94	100	6.2				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	100	102	2.0				70 - 130	30
Trichloroethene	ND	1.0	93	97	4.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	95	99	4.1				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	93	94	1.1				70 - 130	30
Vinyl chloride	ND	1.0	109	111	1.8				70 - 130	30
% 1,2-dichlorobenzene-d4	104	%	97	98	1.0				70 - 130	30
% Bromofluorobenzene	83	%	97	99	2.0				70 - 130	30
% Dibromofluoromethane	102	%	94	96	2.1				70 - 130	30
% Toluene-d8	103	%	100	102	2.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
May 08, 2020

Friday, May 08, 2020

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCF77604 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF77607	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	33	7.4	3	3	ug/Kg
CF77607	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	80	7.4	3	3	ug/Kg
CF77607	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	3.4	1.5	3	3	ug/Kg
CF77607	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	33	7.4	20	20	ug/Kg
CF77607	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	80	7.4	20	20	ug/Kg
CF77608	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	11	7.3	3	3	ug/Kg
CF77608	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	47	7.3	3	3	ug/Kg
CF77608	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	47	7.3	20	20	ug/Kg
CF77609	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	4.4	1.5	3	3	ug/Kg
CF77609	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	71	7.7	3	3	ug/Kg
CF77609	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	160	38	3	3	ug/Kg
CF77609	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	71	7.7	20	20	ug/Kg
CF77609	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	160	38	20	20	ug/Kg
CF77609	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	595	0.38	400	400	mg/Kg
CF77609	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.297	0.010	0.015	0.015	mg/L
CF77609	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.297	0.010	0.15	0.15	mg/L
CF77610	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	63	7.5	3	3	ug/Kg
CF77610	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	240	38	3	3	ug/Kg
CF77610	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	3.8	1.5	3	3	ug/Kg
CF77610	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	63	7.5	20	20	ug/Kg
CF77610	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	240	38	20	20	ug/Kg
CF77610	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	17.2	0.75	10	10	mg/Kg
CF77610	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	518	0.37	400	400	mg/Kg
CF77610	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	1.61	0.010	0.015	0.015	mg/L
CF77610	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	1.61	0.010	0.15	0.15	mg/L
CF77611	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CF77611	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CF77611	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CF77611	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CF77611	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CF77611	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CF77611	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CF77611	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1100	270	1000	1000	ug/Kg
CF77611	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1100	270	1000	1000	ug/Kg
CF77611	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CF77611	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CF77611	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	3.1	1.6	3	3	ug/Kg
CF77611	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	9.4	7.8	3	3	ug/Kg

Friday, May 08, 2020

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCF77604 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF77612	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	3.9	1.5	3	3	ug/Kg
CF77612	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	9.0	7.5	3	3	ug/Kg
CF77612	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.095	0.010	0.015	0.015	mg/L
CF77614	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	6.5	1.5	3	3	ug/Kg
CF77615	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	3200	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	6400	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	4900	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	6200	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	2900	260	1000	1000	ug/Kg
CF77615	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	6000	260	1000	1000	ug/Kg
CF77615	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	3200	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	6200	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4900	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	4200	260	1000	1000	ug/Kg
CF77615	$8100SMR	Fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	16000	2600	5600	5600	ug/Kg
CF77615	$8100SMR	Pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	15000	2600	4000	4000	ug/Kg
CF77615	$8100SMR	Phenanthrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	7000	260	4000	4000	ug/Kg
CF77615	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	6400	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	2900	260	1000	1000	ug/Kg
CF77615	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	6000	260	1000	1000	ug/Kg
CF77615	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	3200	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	6400	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	6200	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4900	260	1000	1000	ug/Kg
CF77615	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	4200	260	1000	1000	ug/Kg
CF77615	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	55	7.4	3	3	ug/Kg
CF77615	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	64	7.4	3	3	ug/Kg
CF77615	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	64	7.4	20	20	ug/Kg
CF77615	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	55	7.4	20	20	ug/Kg
CF77616	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	9.9	7.6	3	3	ug/Kg
CF77616	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	130	38	3	3	ug/Kg
CF77616	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	45	7.6	3	3	ug/Kg
CF77616	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	45	7.6	20	20	ug/Kg
CF77616	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	130	38	20	20	ug/Kg
CF77617	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CF77617	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1300	270	1000	1000	ug/Kg
CF77617	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1300	270	1000	1000	ug/Kg
CF77617	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1300	270	1000	1000	ug/Kg
CF77617	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg

Friday, May 08, 2020

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCF77604 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF77617	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1300	270	1000	1000	ug/Kg
CF77617	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1200	270	1000	1000	ug/Kg
CF77617	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1300	270	1000	1000	ug/Kg
CF77617	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	4.3	1.5	3	3	ug/Kg
CF77617	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	31	7.7	3	3	ug/Kg
CF77617	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	150	39	3	3	ug/Kg
CF77617	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	31	7.7	20	20	ug/Kg
CF77617	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	150	39	20	20	ug/Kg
CF77617	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.181	0.010	0.015	0.015	mg/L
CF77617	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.181	0.010	0.15	0.15	mg/L
CF77618	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	110	39	3	3	ug/Kg
CF77618	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	3.3	1.6	3	3	ug/Kg
CF77618	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	34	7.8	3	3	ug/Kg
CF77618	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	110	39	20	20	ug/Kg
CF77618	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	34	7.8	20	20	ug/Kg
CF77619	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	6.9	1.5	3	3	ug/Kg
CF77619	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	52	7.7	3	3	ug/Kg
CF77619	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	52	7.7	20	20	ug/Kg
CF77620	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	3.3	1.5	3	3	ug/Kg
CF77620	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	10	7.6	3	3	ug/Kg
CF77621	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	170	39	3	3	ug/Kg
CF77621	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	4.9	1.6	3	3	ug/Kg
CF77621	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	81	39	3	3	ug/Kg
CF77621	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	81	39	20	20	ug/Kg
CF77621	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	170	39	20	20	ug/Kg
CF77621	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.031	0.010	0.015	0.015	mg/L
CF77622	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR DEC RES (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benz(a)anthracene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1800	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(a)pyrene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1800	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1400	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(ghi)perylene	CT / RSR GA,GAA (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg
CF77622	$8100SMR	Chrysene	CT / RSR GA,GAA (mg/kg) / APS Organics	1700	260	1000	1000	ug/Kg
CF77622	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GA,GAA (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(k)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1200	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(b)fluoranthene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1400	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(a)pyrene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1800	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benz(a)anthracene	CT / RSR GA,GAA (mg/kg) / Semivolatiles	1800	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(ghi)perylene	CT / RSR GB (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg

Friday, May 08, 2020

Sample Criteria Exceedances Report

Criteria: CT: GAM, GBM, RC

State: CT

GCF77604 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF77622	$8100SMR	Chrysene	CT / RSR GB (mg/kg) / APS Organics	1700	260	1000	1000	ug/Kg
CF77622	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / RSR GB (mg/kg) / APS Organics	1200	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(b)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1400	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(k)fluoranthene	CT / RSR GB (mg/kg) / Semivolatiles	1200	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benz(a)anthracene	CT / RSR GB (mg/kg) / Semivolatiles	1800	260	1000	1000	ug/Kg
CF77622	$8100SMR	Benzo(a)pyrene	CT / RSR GB (mg/kg) / Semivolatiles	1800	260	1000	1000	ug/Kg
CF77622	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	28	7.4	3	3	ug/Kg
CF77622	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	44	7.4	3	3	ug/Kg
CF77622	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	44	7.4	20	20	ug/Kg
CF77622	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	28	7.4	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:*** TRC Environmental Corp.

Project Location: CONN DOT RT 15 MERRITT PARKW ***Project Number:***

Laboratory Sample ID(s): CF77604-CF77622 ***Sampling Date(s):*** 4/20/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***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, 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, May 08, 2020

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
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NY # 11301

RCP Certification Report

May 08, 2020

SDG I.D.: GCF77604

SDG Comments

The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

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

ETPH Narration

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

QC Batch 527440 (Samples: CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622): -----

The LCSD recovery is above the upper range, therefore a slight high bias is possible. (Ext. Petroleum H.C. (C9-C36))

Instrument:

AU-FID1 04/24/20-1 Jeff Bucko, Chemist 04/24/20

CF77618 (1X)

The initial calibration (ETPH403I) 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 (424A003_1) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 04/23/20-1 Jeff Bucko, Chemist 04/23/20

CF77607 (1X), CF77608 (1X), CF77609 (1X), CF77610 (1X), CF77611 (1X), CF77612 (1X)

The initial calibration (ETPH319I) 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 (423A003_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 04/22/20-1 Jeff Bucko, Chemist 04/22/20

CF77614 (1X), CF77615 (1X), CF77616 (1X)

The initial calibration (ETPH420I) 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 (422A005) and contained the following outliers: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID22 04/23/20-1 Jeff Bucko, Chemist 04/23/20

CF77617 (1X), CF77619 (1X), CF77620 (1X), CF77621 (1X), CF77622 (1X)

The initial calibration (ETPH415I) 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 (423A007_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 04/22/20-1 Jeff Bucko, Chemist 04/22/20

CF77613 (1X)

The initial calibration (ETPH420I) 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 (422A005_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 04/24/20-1 Jeff Bucko, Chemist 04/24/20

CF77606 (1X)

The initial calibration (ETPH420I) 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 (424A003_1) and contained the following outliers: None.

Environmental Laboratories, Inc.
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RCP Certification Report

May 08, 2020

SDG I.D.: GCF77604

ETPH Narration

The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 527337 (CF77592)

CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613

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.
There is no MSD for this batch.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Batch 527491 (CF77606)

CF77606

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 527440 (CF77614)

CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(121%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: 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 04/23/20 07:21 Rick Schweitzer, Chemist 04/23/20

CF77606, CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613, CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622

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.

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Certification Report

May 08, 2020

SDG I.D.: GCF77604

Mercury Narration

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 527396 (CF77594)

CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613

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 527397 (CF77246)

CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622

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 527399 (CF77400)

CF77606

All LCS recoveries were within 80 - 120 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 04/22/20 07:54 Emily Kolominskaya, Chemist 04/22/20

CF77608, CF77609, CF77610, CF77611, CF77612, CF77613, CF77614, CF77615, CF77616, CF77617, CF77618

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: ICSAB 04/23/20 06:09: Silver 77% (80-120)
ICSAB 04/23/20 07:14: Silver 77% (80-120)

ARCOS-2 04/23/20 09:24 Emily Kolominskaya, Chemist 04/23/20

CF77607

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 04/24/20 09:11 Cindy Pearce, Chemist 04/24/20

CF77619, CF77620, CF77621, CF77622

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SDG I.D.: GCF77604

ICP Metals Narration

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 04/23/20 10:42 Emily Kolominskaya, Chemist 04/23/20

CF77606

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.

BLUE 05/07/20 09:29 Tina Hall, Chemist 05/07/20

CF77609, CF77610, CF77612, CF77617, CF77621

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 527326 (CF77136)

CF77607

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 527475 (CF77841)

CF77606

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

QC (Site Specific):

Batch 527334 (CF77608)

CF77608, CF77609, CF77610, CF77611, CF77612, CF77613, CF77614, CF77615, CF77616, CF77617, CF77618

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ICP Metals Narration

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%.

Batch 527463 (CF77619)

CF77619, CF77620, CF77621, CF77622

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%.

Batch 529021 (CF77609)

CF77609, CF77610, CF77612, CF77617, CF77621

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PEST Narration

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

QC Batch 527487 (Samples: CF77606): -----

The LCS recovery is below the method criteria. The LCSD is acceptable. A slight low bias is possible. (d-BHC)

The LCS/LCSD RPD exceeds the method criteria for one analyte and the surrogates. This analyte was not reported in the sample(s). No significant variability is suspected. (d-BHC, % DCBP (Confirmation), % TCMX (Confirmation))

Instrument:

AU-ECD4 04/23/20-1 Chelsey Guerette, Chemist 04/23/20

CF77610 (2X), CF77613 (2X), CF77618 (2X), CF77620 (2X), CF77621 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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: CF77610, CF77613, CF77618, CF77620, CF77621
Preceding CC 423A036 - None.
Succeeding CC 423A049 - Endrin Ketone 22%H (20%)

AU-ECD4 04/24/20-1 Chelsey Guerette, Chemist 04/24/20

CF77609 (2X), CF77610 (10X), CF77616 (10X), CF77617 (2X), CF77618 (10X), CF77621 (10X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) RSD for the compound list was less than 20% except for the following compounds: None.

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PEST Narration

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 04/23/20-1 Chelsey Guerette, Chemist 04/23/20

CF77607 (2X), CF77608 (2X), CF77609 (10X), CF77611 (2X), CF77612 (2X), CF77614 (2X), CF77615 (2X), CF77616 (2X), CF77617 (10X), CF77619 (2X), CF77622 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 04/23/20-2 Chelsey Guerette, Chemist 04/23/20

CF77606 (1X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 527335 (CF77594)

CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613

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 527336 (CF72206)

CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622

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 527487 (CF77202)

CF77606

All LCS recoveries were within 40 - 140 with the following exceptions: d-BHC(34%)
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: % DCBP (Confirmation)(35.5%), % TCMX (Confirmation)(27.8%), d-BHC(21.1%)
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

SVOA Narration

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

Instrument:

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SVOA Narration

CHEM06 04/22/20-2 Wes Bryon, Chemist 04/22/20

CF77612 (1X), CF77613 (1X), CF77614 (1X), CF77615 (1X), CF77616 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM06/6_SPLIT_0421):
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 (CHEM06/0422_27-6_SPLIT_0421):
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.

CHEM07 04/23/20-1 Keith Aloisa, Chemist 04/23/20

CF77607 (1X), CF77608 (1X), CF77609 (1X), CF77610 (1X), CF77611 (1X), CF77618 (1X), CF77619 (1X), CF77620 (1X), CF77621 (1X), CF77622 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_BN_0407):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Indeno(1,2,3-cd)pyrene 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 (CHEM07/0423_03-7_BN_0407):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM19 04/23/20-1 Wes Bryon, Chemist 04/23/20

CF77615 (10X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM19/19_SPLIT_0422):
100% of target compounds met criteria.

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SVOA Narration

The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0423_03-19_SPLIT_0422):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM36 04/22/20-1 Matt Richard, Chemist 04/22/20

CF77617 (1X)

Initial Calibration Evaluation (CHEM36/36_SPLIT_0413):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM36/0422_07-36_SPLIT_0413):
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: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 527289 (CF77080)

CF77607, CF77608, CF77609, CF77610, CF77611

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 527290 (CF77136)

CF77612, CF77613, CF77614, CF77615, CF77616

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 527310 (CF77198)

CF77617, CF77618, CF77619, CF77620, CF77621, CF77622

All LCS recoveries were within 40 - 140 with the following exceptions: None.

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SDG I.D.: GCF77604

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%)

SVOASIM Narration

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

Instrument:

CHEM27 04/26/20-1 Wes Bryon, Chemist 04/26/20

CF77606 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM27/27_BNSIM18_0408):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0426_03-27_BNSIM18_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.

QC (Batch Specific):

Batch 527673 (CF77400)

CF77606

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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VOA Narration

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

QC Batch 527441 (Samples: CF77604, CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613, CF77614, CF77615, CF77616, CF77617, CF77618, CF77619): -----

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. (Acetone, Bromomethane, trans-1,4-dichloro-2-butene)

QC Batch 527441H: -----

The QC recoveries for one or more analytes is below the lower range. A slight low bias is possible. (1,1-Dichloroethene, Carbon Disulfide)

The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane)

QC Batch 527451 (Samples: CF77620, CF77621, CF77622): -----

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, cis-1,2-Dichloroethene, Trichlorotrifluoroethane)

The QC recovery for one analyte are above the upper range but was not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane)

QC Batch 527455 (Samples: CF77606): -----

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. (Bromomethane)

Instrument:

CHEM02 04/22/20-2 Michael Hahn, Chemist 04/22/20

CF77606 (1X)

Chem02 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.
EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM02/VT-P042120):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane 21% (20%), Naphthalene 31% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: 2-Hexanone 0.081 (0.1), Acetone 0.082 (0.1), Methyl ethyl ketone 0.092 (0.1)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM02/0422_33-VT-P042120):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.045

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SDG I.D.: GCF77604

VOA Narration

(0.05)

CHEM26 04/22/20-2 Jane Li, Chemist 04/22/20

CF77604 (1X), CF77605 (50X), CF77607 (1X), CF77608 (1X), CF77609 (1X), CF77610 (1X), CF77611 (1X), CF77612 (1X), CF77613 (1X), CF77614 (1X), CF77615 (1X), CF77616 (1X), CF77617 (1X), CF77618 (1X), CF77619 (1X)

Initial Calibration Evaluation (CHEM26/VT-040920):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Acetone 29% (20%), Bromoform 21% (20%), Chloroethane 21% (20%), trans-1,4-dichloro-2-butene 27% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0422_06-VT-040920):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
96% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 04/22/20-2 Jane Li, Chemist 04/22/20

CF77620 (1X), CF77621 (1X), CF77622 (1X)

Initial Calibration Evaluation (CHEM31/VT-L033020):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 32% (20%), Bromoform 34% (20%), Dibromochloromethane 24% (20%), Naphthalene 34% (20%), trans-1,4-dichloro-2-butene 23% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: Bromoform 0.081 (0.1), Tetrachloroethene 0.185 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0422_09-VT-L033020):
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 527441 (CF76926) CHEM26 4/22/2020-2

CF77604(1X), CF77607(1X), CF77608(1X), CF77609(1X), CF77610(1X), CF77611(1X), CF77612(1X), CF77613(1X), CF77614(1X), CF77615(1X), CF77616(1X), CF77617(1X), CF77618(1X), CF77619(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(137%), Bromomethane(135%), trans-1,4-dichloro-2-butene(131%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(133%), Bromomethane(139%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The Low Level MS/MSD are not reported for this batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527441H (CF76926) CHEM26 4/22/2020-2

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VOA Narration

CF77605(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(58%), Carbon Disulfide(60%), Chloroethane(41%), Trichlorofluoromethane(29%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(57%), Carbon Disulfide(60%), Chloroethane(39%), Trichlorofluoromethane(28%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527451 (CF77135) CHEM31 4/22/2020-2

CF77620(1X), CF77621(1X), CF77622(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(146%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(141%), Carbon Disulfide(131%), cis-1,2-Dichloroethene(131%), Trichlorotrifluoroethane(135%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The Low Level MS/MSD are not reported for this batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527455 (CF77263) CHEM02 4/22/2020-2

CF77606(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(144%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(150%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 3.9C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]

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CHAIN OF CUSTODY RECORD

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Client Services (860) 645-8726

Temp 3.9 °C Pg 1 of 2

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trcompanies.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: ConDot – KT 15 Merritt Parkway
Report to: Kristi Gagnon
Invoice to: TRC
QUOTE #
Project P.O: 152374

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Gagnon Date: 4-22-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	PAH (8270)	Total RCRA 8 metals	Dissolved	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] Methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
77604	TB20200422H	S	4-22-20	0700	X					2											2
77605	TB20200422H	S	4-22-20	0700	X					1											1
77606	EB20200422	S	4-22-20	0730	X	X	X	X	X				3	4			1				8
77607	SB-31	S	4-22-20	1320	X	X	X	X	X	3	2										5
77608	SB-32	S	4-22-20	1326	X	X	X	X	X	3	2										5
77609	SB-33	S	4-22-20	1335	X	X	X	X	X	3	2										5
77610	SB-34	S	4-22-20	1343	X	X	X	X	X	3	2										5
77611	SB-35	S	4-22-20	1355	X	X	X	X	X	3	2										5
77612	SB-36	S	4-22-20	1403	X	X	X	X	X	3	2										5
77613	SB-37	S	4-22-20	1412	X	X	X	X	X	3	2										5
77614	SB-38	S	4-22-20	1425	X	X	X	X	X	3	2										5
77615	SB-39	S	4-22-20	1430	X	X	X	X	X	3	2										5

Relinquished by:	Accepted by:	Date:	Time:
Kristi Gagnon	Scott Sofford	4.22.20	1600
SC		4/22/20	17:45

Comments, Special Requirements or Regulations:
Non-Das Pricing
No Sales Tax – ConnDot
Day 3

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [X] No [ ]

CHAIN OF CUSTODY RECORD

Temp 39 °C Pg 2 of 2

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trccompanies.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: ConnDot - RT 15 Merritt
Report to: Christi Gagnon
Invoice to: TRC
QUOTE #

Project P.O: 152374

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 4-22-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	PAH (8270)	Total RCRA 8 metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
77616	SB-40	S	4-22-20	1445	X	X	X	X	X		3	2									5
77617	SB-41	S	4-22-20	1455	X	X	X	X	X		3	2									5
77618	SB-42	S	4-22-20	1500	X	X	X	X	X		3	2									5
77619	SB-43	S	4-22-20	1515	X	X	X	X	X		3	2									5
77620	SB-44	S	4-22-20	1526	X	X	X	X	X		3	2									5
77621	SB-45	S	4-22-20	1535	X	X	X	X	X		3	2									5
77622	SB-39B	S	4-22-20	1435	X	X	X	X	X		3	2									5

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	4/22/20	1400
ST	[signature]	4/22/20	17:45

Comments, Special Requirements or Regulations:
Non - DAS Pricing
no Sales Tax - ConnDot
Day 3

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Loreen Fay

From: Gagnon, Kristi <KGagnon@trccompanies.com>
Sent: Wednesday, May 06, 2020 1:48 PM
To: Loreen Fay
Subject: FW: [EXTERNAL] Phoenix Labs - GCF77604, CONN DOT RT 15 MERRITT PARKWAY - Report Ready

Good afternoon Loreen,

Can we also run these samples for SPLP Metals for lead, standard TAT:

SB-33,
SB-34,
SB-36,
SB-41,
SB-45

Also, SPLP Metals for arsenic for the following, standard TAT:

SB-34

Kristi Gagnon
Environmental Scientist II

21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | **C** 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
Sent: Thursday, April 30, 2020 4:40 PM
To: Gagnon, Kristi <KGagnon@trccompanies.com>
Subject: [EXTERNAL] Phoenix Labs - GCF77604, CONN DOT RT 15 MERRITT PARKWAY - Report Ready

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Delivery group GCF77604 (CONN DOT RT 15 MERRITT PARKWAY) for the following samples:

CF77604 - TB20200422 LOW
CF77605 - TB20200422 HIGH
CF77606 - EB20200422
CF77607 - SB-31
CF77608 - SB-32
CF77609 - SB-33
CF77610 - SB-34
CF77611 - SB-35

CF77612 - SB-36
CF77613 - SB-37
CF77614 - SB-38
CF77615 - SB-39
CF77616 - SB-40
CF77617 - SB-41
CF77618 - SB-42
CF77619 - SB-43
CF77620 - SB-44
CF77621 - SB-45
CF77622 - SB-39B

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

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:KGagnon@trccompanies.com

PHOENIX
Environmental Laboratories, Inc.

Friday, May 08, 2020

Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
SDG ID: GCF78425
Sample ID#s: CF78425 - CF78440

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

May 08, 2020

SDG I.D.: GCF78425

Version 2: Per client request SPLP Lead was added on.

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

Sample Id Cross Reference

May 08, 2020

SDG I.D.: GCF78425

Project ID: CONN DOT-RT 15 MERRITT PARKWAY

Client Id	Lab Id	Matrix
SB-46	CF78425	SOIL
SB-47	CF78426	SOIL
SB-48	CF78427	SOIL
SB-49	CF78428	SOIL
SB-50	CF78429	SOIL
SB-51	CF78430	SOIL
SB-52	CF78431	SOIL
SB-53	CF78432	SOIL
SB-54	CF78433	SOIL
SB-55	CF78434	SOIL
SB-56	CF78435	SOIL
SB-57	CF78436	SOIL
SB-58	CF78437	SOIL
SB-59	CF78438	SOIL
SB-60	CF78439	SOIL
SB-52 B	CF78440	SOIL

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	13:40
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78425

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-46

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	3.82	0.69	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	55.6	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.95	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	24.2	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	344	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	CPP	SW6010D
SPLP Lead	0.184	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	85		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/23/20	LG/EE	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	380	290	mg/Kg	5	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	98		%	5	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0025	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.0072	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.018	0.0078	mg/Kg	2	04/24/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	64		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	04/24/20	CG	30 - 150 %
% TCMX	56		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	55		%	2	04/24/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.026	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-46

Phoenix I.D.: CF78425

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.026	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.26	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Benzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.031	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0052	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	86		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-46

Phoenix I.D.: CF78425

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	95		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	91		%	1	04/24/20	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	63		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	69		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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:

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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	13:45
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78426

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-47

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	4.65	0.74	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	57.9	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	1.00	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	26.3	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	26.7	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	84		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/23/20	LG/EE	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	60	59	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	90		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDE	0.004	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDT	0.016	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/25/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/25/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/25/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	147		%	2	04/25/20	CG	30 - 150 %
% DCBP (Confirmation)	137		%	2	04/25/20	CG	30 - 150 %
% TCMX	121		%	2	04/25/20	CG	30 - 150 %
% TCMX (Confirmation)	110		%	2	04/25/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-47

Phoenix I.D.: CF78426

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0081	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0081	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0081	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0081	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0081	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.004	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	84		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	97		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	91		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-47

Phoenix I.D.: CF78426

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	73		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	88		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C26 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	13:55
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78427

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-48

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	6.85	0.70	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	52.7	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	1.07	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	21.1	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	613	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	CPP	SW6010D
SPLP Lead	0.057	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	88		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/23/20	LG/EE	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.024	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDE	0.19	0.037	mg/Kg	10	04/25/20	CG	SW8081B
4,4' -DDT	0.44	0.074	mg/Kg	20	04/27/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Alachlor	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/27/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Dieldrin	ND	0.005	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan I	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan II	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan sulfate	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
Endrin	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
Endrin aldehyde	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
Endrin ketone	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor epoxide	ND	0.0074	mg/Kg	2	04/27/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/27/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/27/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	78		%	2	04/27/20	CG	30 - 150 %
% DCBP (Confirmation)	79		%	2	04/27/20	CG	30 - 150 %
% TCMX	64		%	2	04/27/20	CG	30 - 150 %
% TCMX (Confirmation)	63		%	2	04/27/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-48

Phoenix I.D.: CF78427

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Benzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.018	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0059	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0059	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0059	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0059	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0059	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.003	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	89		%	1	04/24/20	HM	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	92		%	1	04/24/20	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.39	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.39	0.26	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	75		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	92		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:00
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78428

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-49

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	7.41	0.87	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	51.2	0.44	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	1.19	0.44	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	28.6	0.44	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	165	0.44	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	82		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/23/20	LG/EE	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	88		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0043	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.032	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.057	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
a-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.041	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0041	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0081	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.041	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	67		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	62		%	2	04/24/20	CG	30 - 150 %
% TCMX	62		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	62		%	2	04/24/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.021	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.021	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.21	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-49

Phoenix I.D.: CF78428

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0025	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0084	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0084	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0084	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0084	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0084	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0042	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	87		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	91		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-49

Phoenix I.D.: CF78428

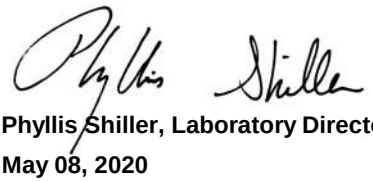
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	0.52	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	0.58	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	0.54	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	0.41	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	0.42	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	0.57	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.99	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	0.42	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	0.48	0.28	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.93	0.28	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	64		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	84		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:08
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78429

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-50

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	2.21	0.73	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	46.1	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.58	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	18.9	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	21.4	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	88		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/23/20	LG/EE	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDE	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDT	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Alachlor	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/25/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan I	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan II	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan sulfate	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
Endrin	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
Endrin aldehyde	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
Endrin ketone	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor epoxide	ND	0.0074	mg/Kg	2	04/25/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/25/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/25/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	72		%	2	04/25/20	CG	30 - 150 %
% DCBP (Confirmation)	70		%	2	04/25/20	CG	30 - 150 %
% TCMX	56		%	2	04/25/20	CG	30 - 150 %
% TCMX (Confirmation)	55		%	2	04/25/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0023	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.019	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.019	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.19	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-50

Phoenix I.D.: CF78429

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0023	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.023	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0077	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0077	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0077	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0077	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0077	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	86		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	91		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-50

Phoenix I.D.: CF78429

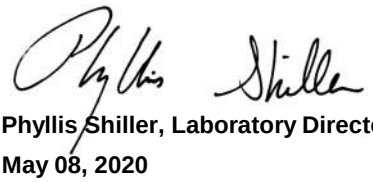
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	0.37	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	0.34	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	0.28	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	0.35	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.77	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	0.55	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.7	0.26	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	79		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	89		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:08
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78430

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-51

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	2.92	0.70	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	41.7	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.76	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	17.3	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	58.1	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	86		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/23/20	LG/EE	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0073	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDE	0.0046	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDT	0.0053	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/25/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/25/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/25/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/25/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	79		%	2	04/25/20	CG	30 - 150 %
% DCBP (Confirmation)	77		%	2	04/25/20	CG	30 - 150 %
% TCMX	63		%	2	04/25/20	CG	30 - 150 %
% TCMX (Confirmation)	62		%	2	04/25/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-51

Phoenix I.D.: CF78430

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.018	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0062	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0062	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0062	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0062	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0062	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0031	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	94		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	98		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-51

Phoenix I.D.: CF78430

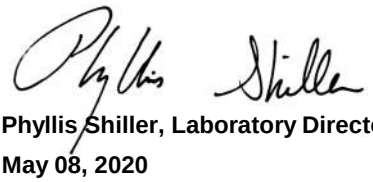
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	71		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	85		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:10
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78431

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-52

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	2.09	0.74	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	42.4	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.56	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	10.5	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	80.7	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	92		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Extraction of CT ETPH	Completed				04/23/20	LG/EE	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0038	0.0014	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDE	0.0072	0.0014	mg/Kg	2	04/24/20	CG	SW8081B
4,4' -DDT	0.023	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
a-BHC	ND	0.0014	mg/Kg	2	04/24/20	CG	SW8081B
Alachlor	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
Aldrin	ND	0.0014	mg/Kg	2	04/24/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0014	mg/Kg	2	04/24/20	CG	SW8081B
Chlordane	ND	0.035	mg/Kg	2	04/24/20	CG	SW8081B
d-BHC	ND	0.0014	mg/Kg	2	04/24/20	CG	SW8081B
Dieldrin	ND	0.0035	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan I	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan II	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
Endosulfan sulfate	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
Endrin	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
Endrin aldehyde	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
Endrin ketone	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
Heptachlor epoxide	ND	0.0071	mg/Kg	2	04/24/20	CG	SW8081B
Methoxychlor	ND	0.035	mg/Kg	2	04/24/20	CG	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	04/24/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	84		%	2	04/24/20	CG	30 - 150 %
% DCBP (Confirmation)	85		%	2	04/24/20	CG	30 - 150 %
% TCMX	66		%	2	04/24/20	CG	30 - 150 %
% TCMX (Confirmation)	63		%	2	04/24/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-52

Phoenix I.D.: CF78431

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0074	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0074	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0074	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0074	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0074	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	95		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	99		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-52

Phoenix I.D.: CF78431

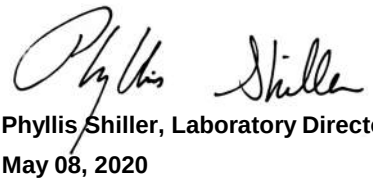
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	73		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	91		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:20
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78432

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-53

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	4.78	0.71	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	56.5	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	1.06	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	28.3	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	223	0.35	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	CPP	SW6010D
SPLP Lead	0.422	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	86		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	120	58	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.003	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDE	0.0053	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDT	0.023	0.0075	mg/Kg	2	04/25/20	CG	SW8081B

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-53

Phoenix I.D.: CF78432

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/25/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/25/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/25/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/25/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	72		%	2	04/25/20	CG	30 - 150 %
% DCBP (Confirmation)	66		%	2	04/25/20	CG	30 - 150 %
% TCMX	61		%	2	04/25/20	CG	30 - 150 %
% TCMX (Confirmation)	54		%	2	04/25/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.002	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.017	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-53

Phoenix I.D.: CF78432

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.017	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.17	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Benzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.002	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.02	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-53

Phoenix I.D.: CF78432

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	98		%	1	04/24/20	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	0.3	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	0.34	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	0.31	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	0.31	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	0.29	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	0.35	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.68	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	0.3	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	0.3	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.61	0.27	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	68		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	82		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:25
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78433

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-54

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	3.48	0.73	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	52.9	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.73	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	15.9	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	0.04	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	118	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	85		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/23/20	LL/E	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	04/28/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/28/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	88		%	1	04/28/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDE	0.024	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
4,4' -DDT	0.04	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/25/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/25/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/25/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/25/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	73		%	2	04/25/20	CG	30 - 150 %
% DCBP (Confirmation)	79		%	2	04/25/20	CG	30 - 150 %
% TCMX	65		%	2	04/25/20	CG	30 - 150 %
% TCMX (Confirmation)	66		%	2	04/25/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0023	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.019	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.019	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.19	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-54

Phoenix I.D.: CF78433

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0023	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.023	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0078	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0078	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0078	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0078	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0078	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0039	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	95		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	97		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	98		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-54

Phoenix I.D.: CF78433

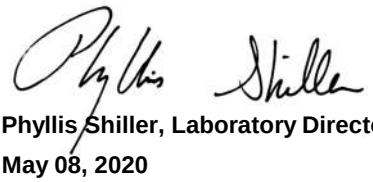
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	0.4	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	0.46	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	0.39	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	0.34	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	0.4	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	0.4	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.9	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	0.34	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	0.47	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.81	0.27	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	76		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	82		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	95		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:35
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78434

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-55

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	3.31	0.73	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	51.4	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.63	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	15.2	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	30.9	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	88		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/24/20	LL/AA	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	170	56	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	85		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0028	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDE	0.0022	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDT	0.0025	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/27/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/27/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/27/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	55		%	2	04/27/20	CG	30 - 150 %
% DCBP (Confirmation)	63		%	2	04/27/20	CG	30 - 150 %
% TCMX	47		%	2	04/27/20	CG	30 - 150 %
% TCMX (Confirmation)	52		%	2	04/27/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
2-Chlorotoluene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/24/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
4-Chlorotoluene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/24/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/24/20	JLI	SW8260C
Acrylonitrile	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-55

Phoenix I.D.: CF78434

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Bromobenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
Bromochloromethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Bromodichloromethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Bromoform	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Bromomethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Carbon Disulfide	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Carbon tetrachloride	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Chlorobenzene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Chloroethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Chloroform	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Chloromethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/24/20	JLI	SW8260C
Dibromomethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Ethylbenzene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/24/20	JLI	SW8260C
Isopropylbenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
m&p-Xylene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/24/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0081	mg/Kg	1	04/24/20	JLI	SW8260C
Methylene chloride	ND	0.0081	mg/Kg	1	04/24/20	JLI	SW8260C
Naphthalene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
n-Butylbenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
n-Propylbenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
o-Xylene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
sec-Butylbenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
Styrene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
tert-Butylbenzene	ND	0.32	mg/Kg	50	04/24/20	JLI	SW8260C
Tetrachloroethene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0081	mg/Kg	1	04/24/20	JLI	SW8260C
Toluene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Total Xylenes	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.64	mg/Kg	50	04/24/20	JLI	SW8260C
Trichloroethene	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0081	mg/Kg	1	04/24/20	JLI	SW8260C
Vinyl chloride	ND	0.004	mg/Kg	1	04/24/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/24/20	JLI	70 - 130 %
% Bromofluorobenzene	81		%	1	04/24/20	JLI	70 - 130 %
% Dibromofluoromethane	111		%	1	04/24/20	JLI	70 - 130 %
% Toluene-d8	93		%	1	04/24/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	04/24/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-55

Phoenix I.D.: CF78434

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	96		%	50	04/24/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	04/24/20	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	04/24/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	0.8	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	0.94	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	0.89	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	0.61	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	0.65	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	0.78	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	1.6	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	0.66	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	0.48	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	1.5	0.26	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	73		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	86		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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:

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.

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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 2

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:40
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78435

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-56

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	5.34	0.75	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	59.9	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.81	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	28.0	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	67.6	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	91		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/24/20	LL/AA	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	86	55	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	85		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0014	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDE	ND	0.0014	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDT	ND	0.003	mg/Kg	2	04/27/20	CG	SW8081B
a-BHC	ND	0.0014	mg/Kg	2	04/27/20	CG	SW8081B
Alachlor	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
Aldrin	ND	0.0014	mg/Kg	2	04/27/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0014	mg/Kg	2	04/27/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/27/20	CG	SW8081B
d-BHC	ND	0.0014	mg/Kg	2	04/27/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan I	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan II	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan sulfate	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
Endrin	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
Endrin aldehyde	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
Endrin ketone	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor epoxide	ND	0.0071	mg/Kg	2	04/27/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/27/20	CG	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	04/27/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	52		%	2	04/27/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	04/27/20	CG	30 - 150 %
% TCMX	46		%	2	04/27/20	CG	30 - 150 %
% TCMX (Confirmation)	45		%	2	04/27/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0019	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.016	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.016	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.16	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-56

Phoenix I.D.: CF78435

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0019	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.019	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0064	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0064	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0064	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0064	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0064	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0032	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	89		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	105		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	99		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-56

Phoenix I.D.: CF78435

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	88		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	94		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		SW5035A

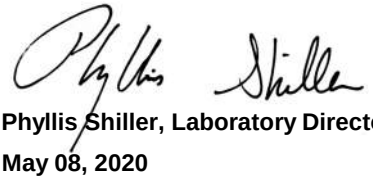
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:50
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78436

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-57

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	4.40	0.74	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	57.2	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.70	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	47.6	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	154	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	91		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/24/20	LL/AA	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	270	mg/Kg	5	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	5	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	5	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0024	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDE	ND	0.0021	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDT	ND	0.0016	mg/Kg	2	04/28/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Alachlor	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/28/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan I	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan II	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan sulfate	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
Endrin	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
Endrin aldehyde	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
Endrin ketone	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor epoxide	ND	0.0073	mg/Kg	2	04/28/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/28/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/28/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	47		%	2	04/28/20	CG	30 - 150 %
% DCBP (Confirmation)	51		%	2	04/28/20	CG	30 - 150 %
% TCMX	44		%	2	04/28/20	CG	30 - 150 %
% TCMX (Confirmation)	46		%	2	04/28/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0023	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
2-Chlorotoluene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
2-Hexanone	ND	0.019	mg/Kg	1	04/24/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
4-Chlorotoluene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.019	mg/Kg	1	04/24/20	JLI	SW8260C
Acetone	ND	0.19	mg/Kg	1	04/24/20	JLI	SW8260C
Acrylonitrile	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-57

Phoenix I.D.: CF78436

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Bromobenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
Bromochloromethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Bromodichloromethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Bromoform	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Bromomethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Carbon Disulfide	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Chlorobenzene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Chloroethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Chloroform	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Chloromethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Dibromochloromethane	ND	0.0023	mg/Kg	1	04/24/20	JLI	SW8260C
Dibromomethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Ethylbenzene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/24/20	JLI	SW8260C
Isopropylbenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
m&p-Xylene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.023	mg/Kg	1	04/24/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0076	mg/Kg	1	04/24/20	JLI	SW8260C
Methylene chloride	ND	0.0076	mg/Kg	1	04/24/20	JLI	SW8260C
Naphthalene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
n-Butylbenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
n-Propylbenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
o-Xylene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
sec-Butylbenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
Styrene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
tert-Butylbenzene	ND	0.28	mg/Kg	50	04/24/20	JLI	SW8260C
Tetrachloroethene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0076	mg/Kg	1	04/24/20	JLI	SW8260C
Toluene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Total Xylenes	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.57	mg/Kg	50	04/24/20	JLI	SW8260C
Trichloroethene	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0076	mg/Kg	1	04/24/20	JLI	SW8260C
Vinyl chloride	ND	0.0038	mg/Kg	1	04/24/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/24/20	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	04/24/20	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	04/24/20	JLI	70 - 130 %
% Toluene-d8	96		%	1	04/24/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	04/24/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-57

Phoenix I.D.: CF78436

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	96		%	50	04/24/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	95		%	50	04/24/20	JLI	70 - 130 %
% Toluene-d8 (50x)	98		%	50	04/24/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	0.28	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	0.31	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	0.28	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	0.33	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.65	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	0.44	0.25	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.57	0.25	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	85		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	94		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	15:00
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78437

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-58

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	3.66	0.71	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	65.2	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.87	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	26.7	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	0.03	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	151	0.36	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	88		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/24/20	LL/AA	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0016	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDE	0.0057	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDT	0.016	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/27/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/27/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/27/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	71		%	2	04/27/20	CG	30 - 150 %
% DCBP (Confirmation)	73		%	2	04/27/20	CG	30 - 150 %
% TCMX	59		%	2	04/27/20	CG	30 - 150 %
% TCMX (Confirmation)	58		%	2	04/27/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
2-Chlorotoluene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/24/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
4-Chlorotoluene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/24/20	JLI	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/24/20	JLI	SW8260C
Acrylonitrile	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-58

Phoenix I.D.: CF78437

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Bromobenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
Bromochloromethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Bromodichloromethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Bromoform	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Bromomethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Carbon Disulfide	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Carbon tetrachloride	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Chlorobenzene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Chloroethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Chloroform	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Chloromethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/24/20	JLI	SW8260C
Dibromomethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Ethylbenzene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/24/20	JLI	SW8260C
Isopropylbenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
m&p-Xylene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.018	mg/Kg	1	04/24/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0059	mg/Kg	1	04/24/20	JLI	SW8260C
Methylene chloride	ND	0.0059	mg/Kg	1	04/24/20	JLI	SW8260C
Naphthalene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
n-Butylbenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
n-Propylbenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
o-Xylene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
sec-Butylbenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
Styrene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
tert-Butylbenzene	ND	0.27	mg/Kg	50	04/24/20	JLI	SW8260C
Tetrachloroethene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0059	mg/Kg	1	04/24/20	JLI	SW8260C
Toluene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Total Xylenes	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.53	mg/Kg	50	04/24/20	JLI	SW8260C
Trichloroethene	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0059	mg/Kg	1	04/24/20	JLI	SW8260C
Vinyl chloride	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/24/20	JLI	70 - 130 %
% Bromofluorobenzene	82		%	1	04/24/20	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	04/24/20	JLI	70 - 130 %
% Toluene-d8	94		%	1	04/24/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	04/24/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-58

Phoenix I.D.: CF78437

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	97		%	50	04/24/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	92		%	50	04/24/20	JLI	70 - 130 %
% Toluene-d8 (50x)	99		%	50	04/24/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	0.35	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	0.41	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	0.38	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	0.29	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	0.33	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	0.35	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.52	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	0.32	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.54	0.26	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	79		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	93		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	15:10
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78438

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-59

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	1.93	0.78	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	59.4	0.39	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.68	0.39	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	41.7	0.39	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/24/20	RS	SW7471B
Lead	149	0.39	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	88		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/24/20	LL/AA	SW3545A
Mercury Digestion	Completed				04/24/20	LS/LS	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0027	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDE	0.016	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDT	0.063	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/27/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/27/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/27/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	57		%	2	04/27/20	CG	30 - 150 %
% DCBP (Confirmation)	62		%	2	04/27/20	CG	30 - 150 %
% TCMX	51		%	2	04/27/20	CG	30 - 150 %
% TCMX (Confirmation)	49		%	2	04/27/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.002	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.017	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.017	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.17	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-59

Phoenix I.D.: CF78438

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.002	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.02	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0067	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0034	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	88		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	104		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	98		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-59

Phoenix I.D.: CF78438

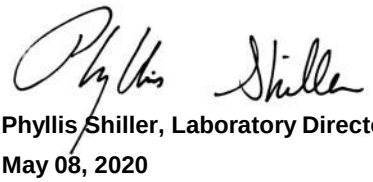
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.36	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.33	0.26	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	77		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	91		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	15:20
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78439

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-60

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	4.90	0.76	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	58.8	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.71	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	18.8	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	64.2	0.38	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	86		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/24/20	LL/AA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/W/W	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	90		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDE	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDT	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/27/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/27/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/27/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/27/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	52		%	2	04/27/20	CG	30 - 150 %
% DCBP (Confirmation)	55		%	2	04/27/20	CG	30 - 150 %
% TCMX	44		%	2	04/27/20	CG	30 - 150 %
% TCMX (Confirmation)	44		%	2	04/27/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-60

Phoenix I.D.: CF78439

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0027	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.027	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0088	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0088	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0088	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0088	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0088	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0044	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	92		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	103		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	100		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-60

Phoenix I.D.: CF78439

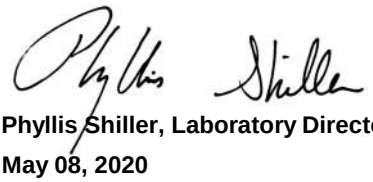
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	ND	0.27	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	72		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	79		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 08, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/23/20	14:15
Location Code:	TRC-NONDAS	Received by:	SW	04/23/20	16:30
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF78425
Phoenix ID: CF78440

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-52 B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Arsenic	2.91	0.75	mg/Kg	1	04/25/20	CPP	SW6010D
Barium	40.4	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Cadmium	0.78	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Chromium	13.4	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	137	0.37	mg/Kg	1	04/25/20	CPP	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	CPP	SW6010D
Percent Solid	89		%		04/23/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/24/20	LL/E	SW3545A
Mercury Digestion	Completed				04/27/20	RA/W/W	SW7471B
Extraction of CT ETPH	Completed				04/23/20	BB/MA	SW3546
Soil Extraction for SVOA PAH	Completed				04/24/20	KK/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	04/24/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/24/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	91		%	1	04/24/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0026	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDE	0.0044	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
4,4' -DDT	0.013	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/27/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/27/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/27/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/27/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	55		%	2	04/27/20	CG	30 - 150 %
% DCBP (Confirmation)	60		%	2	04/27/20	CG	30 - 150 %
% TCMX	49		%	2	04/27/20	CG	30 - 150 %
% TCMX (Confirmation)	48		%	2	04/27/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,1,1-Trichloroethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/24/20	HM	SW8260C
1,1,2-Trichloroethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloroethene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,1-Dichloropropene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2,3-Trichloropropane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2,4-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dibromoethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloroethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,3-Dichloropropane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
1,4-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
2,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
2-Chlorotoluene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/24/20	HM	SW8260C
2-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
4-Chlorotoluene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/24/20	HM	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/24/20	HM	SW8260C
Acrylonitrile	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-52 B

Phoenix I.D.: CF78440

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Bromobenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Bromochloromethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Bromodichloromethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Bromoform	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Bromomethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Carbon Disulfide	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Carbon tetrachloride	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Chlorobenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Chloroethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Chloroform	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Chloromethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
cis-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/24/20	HM	SW8260C
Dibromomethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Dichlorodifluoromethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Ethylbenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Hexachlorobutadiene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Isopropylbenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
m&p-Xylene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/24/20	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0071	mg/Kg	1	04/24/20	HM	SW8260C
Methylene chloride	ND	0.0071	mg/Kg	1	04/24/20	HM	SW8260C
Naphthalene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
n-Butylbenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
n-Propylbenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
o-Xylene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
p-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
sec-Butylbenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Styrene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
tert-Butylbenzene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Tetrachloroethene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Tetrahydrofuran (THF)	ND	0.0071	mg/Kg	1	04/24/20	HM	SW8260C
Toluene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Total Xylenes	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0071	mg/Kg	1	04/24/20	HM	SW8260C
Trichloroethene	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorofluoromethane	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
Trichlorotrifluoroethane	ND	0.0071	mg/Kg	1	04/24/20	HM	SW8260C
Vinyl chloride	ND	0.0035	mg/Kg	1	04/24/20	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	04/24/20	HM	70 - 130 %
% Bromofluorobenzene	89		%	1	04/24/20	HM	70 - 130 %
% Dibromofluoromethane	105		%	1	04/24/20	HM	70 - 130 %
% Toluene-d8	100		%	1	04/24/20	HM	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-52 B

Phoenix I.D.: CF78440

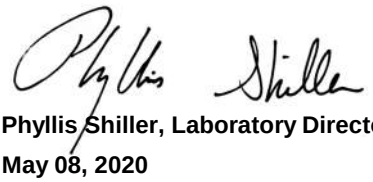
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(a)pyrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(b)fluoranthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Chrysene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluoranthene	0.35	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/25/20	AW	SW8270D
Pyrene	0.32	0.26	mg/Kg	1	04/25/20	AW	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	04/25/20	AW	30 - 130 %
% Nitrobenzene-d5	60		%	1	04/25/20	AW	30 - 130 %
% Terphenyl-d14	77		%	1	04/25/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		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
May 08, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

QA/QC Report

May 08, 2020

QA/QC Data

SDG I.D.: GCF78425

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 527626 (mg/kg), QC Sample No: CF77251 2X (CF78439, CF78440)													
Mercury - Soil	BRL	0.02	0.12	0.12	0	99.7	103	3.3	83.6	105	22.7	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 527582 (mg/kg), QC Sample No: CF78028 2X (CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	83.4	88.4	5.8	118	103	13.6	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 529021 (mg/L), QC Sample No: CF77609 (CF78425, CF78427, CF78432)													
ICP Metals - SPLP Extraction													
Lead	BRL	0.010	0.297	0.249	17.6	98.9	98.4	0.5	97.7			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 527649 (mg/kg), QC Sample No: CF78425 (CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440)													
ICP Metals - Soil													
Arsenic	BRL	0.67	3.82	3.55	NC	93.8	111	16.8	102			75 - 125	35
Barium	BRL	0.33	55.6	54.3	2.40	90.4	103	13.0	119			75 - 125	35
Cadmium	BRL	0.33	0.95	0.85	NC	97.6	110	11.9	111			75 - 125	35
Chromium	BRL	0.33	24.2	22.6	6.80	94.4	109	14.4	111			75 - 125	35
Lead	BRL	0.33	344	388	12.0	90.6	113	22.0	99.3			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.7	NC	89.7	106	16.7	99.5			75 - 125	35
Silver	BRL	0.33	<0.35	<0.41	NC	84.0	102	19.4	98.6			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

Environmental Laboratories, Inc.
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QA/QC Report

May 08, 2020

QA/QC Data

SDG I.D.: GCF78425

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 527493 (mg/Kg), QC Sample No: CF77947 (CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	91	91	0.0	101	83	19.6	60 - 120	30	
% n-Pentacosane	43	%	73	77	5.3	84	74	12.7	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 527443 (mg/Kg), QC Sample No: CF78429 (CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	103			101	84	18.4	60 - 120	30	
% n-Pentacosane	56	%	70			80	58	31.9	50 - 150	30	r
Comment:											
This batch consists of a Blank, LCS, MS and MSD.											
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 527522 (mg/Kg), QC Sample No: CF75465 2X (CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433)											
Pesticides - Soil											
4,4' -DDD	ND	0.0017	75	81	7.7	81	72	11.8	40 - 140	30	
4,4' -DDE	ND	0.0017	75	78	3.9	83	70	17.0	40 - 140	30	
4,4' -DDT	ND	0.0017	73	78	6.6	75	66	12.8	40 - 140	30	
a-BHC	ND	0.001	71	75	5.5	68	59	14.2	40 - 140	30	
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	0.001	71	76	6.8	72	62	14.9	40 - 140	30	
b-BHC	ND	0.001	77	79	2.6	74	64	14.5	40 - 140	30	
Chlordane	ND	0.033	73	77	5.3	74	66	11.4	40 - 140	30	
d-BHC	ND	0.0033	66	71	7.3	68	56	19.4	40 - 140	30	
Dieldrin	ND	0.001	72	77	6.7	74	66	11.4	40 - 140	30	
Endosulfan I	ND	0.0033	75	78	3.9	111	111	0.0	40 - 140	30	
Endosulfan II	ND	0.0033	73	77	5.3	76	68	11.1	40 - 140	30	
Endosulfan sulfate	ND	0.0033	70	74	5.6	69	60	14.0	40 - 140	30	
Endrin	ND	0.0033	68	72	5.7	75	66	12.8	40 - 140	30	
Endrin aldehyde	ND	0.0033	60	60	0.0	50	39	24.7	40 - 140	30	
Endrin ketone	ND	0.0033	69	75	8.3	72	63	13.3	40 - 140	30	
g-BHC	ND	0.001	72	76	5.4	69	60	14.0	40 - 140	30	
Heptachlor	ND	0.0033	69	75	8.3	72	61	16.5	40 - 140	30	
Heptachlor epoxide	ND	0.0033	72	75	4.1	72	64	11.8	40 - 140	30	
Methoxychlor	ND	0.0033	74	79	6.5	76	68	11.1	40 - 140	30	
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	68	%	68	74	8.5	71	65	8.8	30 - 150	30	
% DCBP (Confirmation)	77	%	77	84	8.7	76	71	6.8	30 - 150	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% TCMX	69	%	66	69	4.4	64	57	11.6	30 - 150	30
% TCMX (Confirmation)	69	%	67	69	2.9	69	94	30.7	30 - 150	30

QA/QC Batch 527689 (mg/Kg), QC Sample No: CF78437 2X (CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440)

Pesticides - Soil

4,4' -DDD	ND	0.0017	57	42	30.3				40 - 140	30
4,4' -DDE	ND	0.0017	56	43	26.3				40 - 140	30
4,4' -DDT	ND	0.0017	54	43	22.7				40 - 140	30
a-BHC	ND	0.001	53	47	12.0				40 - 140	30
Alachlor	ND	0.0033	NA	NA	NC				40 - 140	30
Aldrin	ND	0.001	56	46	19.6				40 - 140	30
b-BHC	ND	0.001	60	51	16.2				40 - 140	30
Chlordane	ND	0.033	60	48	22.2				40 - 140	30
d-BHC	ND	0.0033	50	40	22.2				40 - 140	30
Dieldrin	ND	0.001	56	45	21.8				40 - 140	30
Endosulfan I	ND	0.0033	53	44	18.6				40 - 140	30
Endosulfan II	ND	0.0033	57	46	21.4				40 - 140	30
Endosulfan sulfate	ND	0.0033	64	51	22.6				40 - 140	30
Endrin	ND	0.0033	56	46	19.6				40 - 140	30
Endrin aldehyde	ND	0.0033	50	41	19.8				40 - 140	30
Endrin ketone	ND	0.0033	58	48	18.9				40 - 140	30
g-BHC	ND	0.001	70	60	15.4				40 - 140	30
Heptachlor	ND	0.0033	57	48	17.1				40 - 140	30
Heptachlor epoxide	ND	0.0033	58	47	21.0				40 - 140	30
Methoxychlor	ND	0.0033	61	47	25.9				40 - 140	30
Toxaphene	ND	0.13	NA	NA	NC				40 - 140	30
% DCBP	32	%	59	49	18.5				30 - 150	30
% DCBP (Confirmation)	31	%	54	45	18.2				30 - 150	30
% TCMX	31	%	55	50	9.5				30 - 150	30
% TCMX (Confirmation)	32	%	52	46	12.2				30 - 150	30

Comment:

This batch consists of a Blank, LCS and LCSD.

QA/QC Batch 527638 (mg/Kg), QC Sample No: CF78425 (CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440)

Semivolatiles - Soil

2-Methylnaphthalene	ND	0.23	81	79	2.5	82	92	11.5	40 - 140	30
Acenaphthene	ND	0.23	70	78	10.8	73	87	17.5	30 - 130	30
Acenaphthylene	ND	0.23	72	75	4.1	76	84	10.0	40 - 140	30
Anthracene	ND	0.23	69	73	5.6	79	83	4.9	40 - 140	30
Benz(a)anthracene	ND	0.23	70	75	6.9	85	82	3.6	40 - 140	30
Benzo(a)pyrene	ND	0.23	71	79	10.7	93	88	5.5	40 - 140	30
Benzo(b)fluoranthene	ND	0.23	83	94	12.4	107	101	5.8	40 - 140	30
Benzo(ghi)perylene	ND	0.23	70	76	8.2	86	82	4.8	40 - 140	30
Benzo(k)fluoranthene	ND	0.23	51	53	3.8	61	62	1.6	40 - 140	30
Chrysene	ND	0.23	70	75	6.9	86	82	4.8	40 - 140	30
Dibenz(a,h)anthracene	ND	0.23	73	78	6.6	83	89	7.0	40 - 140	30
Fluoranthene	ND	0.23	75	74	1.3	107	85	22.9	40 - 140	30
Fluorene	ND	0.23	76	82	7.6	76	88	14.6	40 - 140	30
Indeno(1,2,3-cd)pyrene	ND	0.23	74	83	11.5	92	88	4.4	40 - 140	30
Naphthalene	ND	0.23	74	74	0.0	75	87	14.8	40 - 140	30
Phenanthrene	ND	0.23	70	73	4.2	96	82	15.7	40 - 140	30
Pyrene	ND	0.23	81	77	5.1	107	89	18.4	30 - 130	30

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 2-Fluorobiphenyl	67	%		65	68	4.5	65	78	18.2	30 - 130	30	
% Nitrobenzene-d5	73	%		77	70	9.5	75	85	12.5	30 - 130	30	
% Terphenyl-d14	80	%		79	79	0.0	83	89	7.0	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 527605 (mg/Kg), QC Sample No: CF77756 (CF78425, CF78426, CF78427, CF78428, CF78429)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005		100	99	1.0	93			70 - 130	30	
1,1,1-Trichloroethane	ND	0.005		100	95	5.1	94			70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003		98	97	1.0	107			70 - 130	30	
1,1,2-Trichloroethane	ND	0.005		99	96	3.1	88			70 - 130	30	
1,1-Dichloroethane	ND	0.005		98	94	4.2	94			70 - 130	30	
1,1-Dichloroethene	ND	0.005		108	102	5.7	95			70 - 130	30	
1,1-Dichloropropene	ND	0.005		98	96	2.1	86			70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005		93	95	2.1	37			70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005		89	89	0.0	118			70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005		90	91	1.1	41			70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001		96	95	1.0	87			70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005		109	111	1.8	94			70 - 130	30	
1,2-Dibromoethane	ND	0.005		100	98	2.0	85			70 - 130	30	
1,2-Dichlorobenzene	ND	0.005		96	96	0.0	77			70 - 130	30	
1,2-Dichloroethane	ND	0.005		97	96	1.0	87			70 - 130	30	
1,2-Dichloropropane	ND	0.005		100	98	2.0	94			70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001		96	96	0.0	91			70 - 130	30	
1,3-Dichlorobenzene	ND	0.005		93	92	1.1	76			70 - 130	30	
1,3-Dichloropropane	ND	0.005		98	95	3.1	90			70 - 130	30	
1,4-Dichlorobenzene	ND	0.005		92	92	0.0	75			70 - 130	30	
2,2-Dichloropropane	ND	0.005		100	96	4.1	93			70 - 130	30	
2-Chlorotoluene	ND	0.005		98	97	1.0	97			70 - 130	30	
2-Hexanone	ND	0.025		92	92	0.0	70			70 - 130	30	
2-Isopropyltoluene	ND	0.005		101	101	0.0	82			70 - 130	30	
4-Chlorotoluene	ND	0.005		93	93	0.0	88			70 - 130	30	
4-Methyl-2-pentanone	ND	0.025		100	101	1.0	83			70 - 130	30	
Acetone	ND	0.01		74	77	4.0	57			70 - 130	30	m
Acrylonitrile	ND	0.005		99	97	2.0	81			70 - 130	30	
Benzene	ND	0.001		102	100	2.0	92			70 - 130	30	
Bromobenzene	ND	0.005		98	97	1.0	96			70 - 130	30	
Bromochloromethane	ND	0.005		99	100	1.0	88			70 - 130	30	
Bromodichloromethane	ND	0.005		103	100	3.0	93			70 - 130	30	
Bromoform	ND	0.005		98	97	1.0	82			70 - 130	30	
Bromomethane	ND	0.005		124	117	5.8	102			70 - 130	30	
Carbon Disulfide	ND	0.005		102	98	4.0	65			70 - 130	30	m
Carbon tetrachloride	ND	0.005		101	96	5.1	92			70 - 130	30	
Chlorobenzene	ND	0.005		98	96	2.1	83			70 - 130	30	
Chloroethane	ND	0.005		103	97	6.0	91			70 - 130	30	
Chloroform	ND	0.005		94	92	2.2	90			70 - 130	30	
Chloromethane	ND	0.005		109	105	3.7	100			70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005		98	92	6.3	85			70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005		101	100	1.0	77			70 - 130	30	
Dibromochloromethane	ND	0.003		103	101	2.0	93			70 - 130	30	
Dibromomethane	ND	0.005		99	98	1.0	83			70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Dichlorodifluoromethane	ND	0.005	137	129	6.0	121			70 - 130	30	l
Ethylbenzene	ND	0.001	101	99	2.0	89			70 - 130	30	
Hexachlorobutadiene	ND	0.005	96	96	0.0	34			70 - 130	30	m
Isopropylbenzene	ND	0.001	99	97	2.0	105			70 - 130	30	
m&p-Xylene	ND	0.002	98	95	3.1	84			70 - 130	30	
Methyl ethyl ketone	ND	0.005	90	89	1.1	80			70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	79	77	2.6	88			70 - 130	30	
Methylene chloride	ND	0.005	97	94	3.1	89			70 - 130	30	
Naphthalene	ND	0.005	101	105	3.9	44			70 - 130	30	m
n-Butylbenzene	ND	0.001	97	97	0.0	63			70 - 130	30	m
n-Propylbenzene	ND	0.001	98	95	3.1	95			70 - 130	30	
o-Xylene	ND	0.002	101	100	1.0	87			70 - 130	30	
p-Isopropyltoluene	ND	0.001	98	98	0.0	77			70 - 130	30	
sec-Butylbenzene	ND	0.001	103	101	2.0	82			70 - 130	30	
Styrene	ND	0.005	99	97	2.0	75			70 - 130	30	
tert-Butylbenzene	ND	0.001	98	96	2.1	87			70 - 130	30	
Tetrachloroethene	ND	0.005	100	97	3.0	81			70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	96	92	4.3	92			70 - 130	30	
Toluene	ND	0.001	105	102	2.9	90			70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	84	82	2.4	66			70 - 130	30	m
trans-1,3-Dichloropropene	ND	0.005	102	100	2.0	71			70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	111	112	0.9	89			70 - 130	30	
Trichloroethene	ND	0.005	101	98	3.0	90			70 - 130	30	
Trichlorofluoromethane	ND	0.005	111	105	5.6	102			70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	110	105	4.7	98			70 - 130	30	
Vinyl chloride	ND	0.005	118	113	4.3	101			70 - 130	30	
% 1,2-dichlorobenzene-d4	96	%	101	101	0.0	99			70 - 130	30	
% Bromofluorobenzene	97	%	100	99	1.0	90			70 - 130	30	
% Dibromofluoromethane	95	%	94	95	1.1	96			70 - 130	30	
% Toluene-d8	93	%	102	101	1.0	97			70 - 130	30	

Comment:

The MSD is not reported for this LL soil batch.

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

QA/QC Batch 527787 (mg/Kg), QC Sample No: CF78007 (CF78437)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	91	93	2.2	88	85	3.5	70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	87	90	3.4	90	88	2.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	87	88	1.1	87	84	3.5	70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	85	86	1.2	84	81	3.6	70 - 130	30	
1,1-Dichloroethane	ND	0.005	87	89	2.3	91	90	1.1	70 - 130	30	
1,1-Dichloroethene	ND	0.005	94	97	3.1	94	94	0.0	70 - 130	30	
1,1-Dichloropropene	ND	0.005	85	87	2.3	83	79	4.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	87	87	0.0	82	78	5.0	70 - 130	30	
1,2-Dibromoethane	ND	0.005	86	86	0.0	83	81	2.4	70 - 130	30	
1,2-Dichloroethane	ND	0.005	86	87	1.2	86	85	1.2	70 - 130	30	
1,2-Dichloropropane	ND	0.005	89	90	1.1	89	86	3.4	70 - 130	30	
1,3-Dichloropropane	ND	0.005	85	86	1.2	85	83	2.4	70 - 130	30	
2,2-Dichloropropane	ND	0.005	92	96	4.3	91	89	2.2	70 - 130	30	
2-Hexanone	ND	0.025	93	93	0.0	85	82	3.6	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	102	103	1.0	99	95	4.1	70 - 130	30	
Acetone	ND	0.01	82	82	0.0	103	98	5.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCF78425

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acrylonitrile	ND	0.005	99	99	0.0	101	99	2.0	70 - 130	30	
Benzene	ND	0.001	89	91	2.2	90	88	2.2	70 - 130	30	
Bromochloromethane	ND	0.005	89	92	3.3	91	90	1.1	70 - 130	30	
Bromodichloromethane	ND	0.005	91	92	1.1	89	87	2.3	70 - 130	30	
Bromoform	ND	0.005	92	92	0.0	82	81	1.2	70 - 130	30	
Bromomethane	ND	0.005	128	130	1.6	124	129	4.0	70 - 130	30	
Carbon Disulfide	ND	0.005	102	106	3.8	97	97	0.0	70 - 130	30	
Carbon tetrachloride	ND	0.005	93	96	3.2	90	91	1.1	70 - 130	30	
Chlorobenzene	ND	0.005	86	88	2.3	80	77	3.8	70 - 130	30	
Chloroethane	ND	0.005	104	106	1.9	107	107	0.0	70 - 130	30	
Chloroform	ND	0.005	86	89	3.4	90	88	2.2	70 - 130	30	
Chloromethane	ND	0.005	100	103	3.0	105	102	2.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	88	90	2.2	89	87	2.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	90	92	2.2	83	81	2.4	70 - 130	30	
Dibromochloromethane	ND	0.003	93	94	1.1	88	85	3.5	70 - 130	30	
Dibromomethane	ND	0.005	86	88	2.3	84	82	2.4	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	91	95	4.3	91	88	3.4	70 - 130	30	
Ethylbenzene	ND	0.001	88	90	2.2	83	79	4.9	70 - 130	30	
m&p-Xylene	ND	0.002	89	90	1.1	82	77	6.3	70 - 130	30	
Methyl ethyl ketone	ND	0.005	88	89	1.1	87	83	4.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	100	102	2.0	101	101	0.0	70 - 130	30	
Methylene chloride	ND	0.005	86	87	1.2	67	76	12.6	70 - 130	30	m
o-Xylene	ND	0.002	89	91	2.2	82	78	5.0	70 - 130	30	
Styrene	ND	0.005	90	93	3.3	79	76	3.9	70 - 130	30	
Tetrachloroethene	ND	0.005	86	88	2.3	78	74	5.3	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	98	100	2.0	101	99	2.0	70 - 130	30	
Toluene	ND	0.001	89	91	2.2	86	83	3.6	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	91	94	3.2	89	89	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	91	95	4.3	82	80	2.5	70 - 130	30	
Trichloroethene	ND	0.005	86	88	2.3	84	82	2.4	70 - 130	30	
Trichlorofluoromethane	ND	0.005	107	110	2.8	110	106	3.7	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	107	112	4.6	105	101	3.9	70 - 130	30	
Vinyl chloride	ND	0.005	108	111	2.7	110	109	0.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	%	100	100	0.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	96	%	99	99	0.0	96	96	0.0	70 - 130	30	
% Dibromofluoromethane	101	%	98	100	2.0	103	101	2.0	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.

QA/QC Batch 527787H (mg/Kg), QC Sample No: CF78007 50X (CF78434 (50X) , CF78436 (50X) , CF78437 (50X))

Volatiles - Soil (High Level)

1,2,3-Trichlorobenzene	ND	0.25	91	91	0.0	74	86	15.0	70 - 130	30	
1,2,3-Trichloropropane	ND	0.25	84	82	2.4	71	82	14.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.25	97	97	0.0	76	88	14.6	70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.25	92	92	0.0	75	87	14.8	70 - 130	30	
1,2-Dichlorobenzene	ND	0.25	90	89	1.1	73	84	14.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.25	92	91	1.1	75	87	14.8	70 - 130	30	
1,3-Dichlorobenzene	ND	0.25	92	91	1.1	73	85	15.2	70 - 130	30	
1,4-Dichlorobenzene	ND	0.25	91	90	1.1	73	84	14.0	70 - 130	30	
2-Chlorotoluene	ND	0.25	90	90	0.0	73	85	15.2	70 - 130	30	
2-Isopropyltoluene	ND	0.25	105	104	1.0	86	100	15.1	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorotoluene	ND	0.25	91	90	1.1	73	85	15.2	70 - 130	30	
Bromobenzene	ND	0.25	90	89	1.1	73	84	14.0	70 - 130	30	
Hexachlorobutadiene	ND	0.25	93	94	1.1	78	91	15.4	70 - 130	30	
Isopropylbenzene	ND	0.25	90	90	0.0	74	87	16.1	70 - 130	30	
Naphthalene	ND	0.25	88	87	1.1	75	88	16.0	70 - 130	30	
n-Butylbenzene	ND	0.25	99	99	0.0	80	93	15.0	70 - 130	30	
n-Propylbenzene	ND	0.25	91	91	0.0	75	87	14.8	70 - 130	30	
p-Isopropyltoluene	ND	0.25	96	96	0.0	77	90	15.6	70 - 130	30	
sec-Butylbenzene	ND	0.25	98	97	1.0	81	94	14.9	70 - 130	30	
tert-Butylbenzene	ND	0.25	90	90	0.0	74	86	15.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.25	116	111	4.4	87	102	15.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	96	%	100	99	1.0	99	98	1.0	70 - 130	30	
% Dibromofluoromethane	94	%	99	97	2.0	99	99	0.0	70 - 130	30	
% Toluene-d8	98	%	99	99	0.0	99	99	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 527765 (mg/Kg), QC Sample No: CF78098 (CF78430, CF78431, CF78432, CF78433)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	102	101	1.0	101	99	2.0	70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	97	96	1.0	99	96	3.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	96	97	1.0	91	92	1.1	70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	94	92	2.2	89	87	2.3	70 - 130	30	
1,1-Dichloroethane	ND	0.005	92	92	0.0	92	97	5.3	70 - 130	30	
1,1-Dichloroethene	ND	0.005	98	98	0.0	106	100	5.8	70 - 130	30	
1,1-Dichloropropene	ND	0.005	94	93	1.1	96	92	4.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	99	96	3.1	71	61	15.2	70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005	92	92	0.0	84	82	2.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	96	90	6.5	68	56	19.4	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001	93	92	1.1	94	85	10.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	101	101	0.0	85	84	1.2	70 - 130	30	
1,2-Dibromoethane	ND	0.005	95	97	2.1	90	89	1.1	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	89	88	1.1	82	77	6.3	70 - 130	30	
1,2-Dichloroethane	ND	0.005	95	93	2.1	92	93	1.1	70 - 130	30	
1,2-Dichloropropane	ND	0.005	95	92	3.2	93	91	2.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	95	94	1.1	97	90	7.5	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	91	89	2.2	84	77	8.7	70 - 130	30	
1,3-Dichloropropane	ND	0.005	94	94	0.0	92	89	3.3	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	89	86	3.4	80	73	9.2	70 - 130	30	
2,2-Dichloropropane	ND	0.005	97	95	2.1	95	91	4.3	70 - 130	30	
2-Chlorotoluene	ND	0.005	93	92	1.1	93	87	6.7	70 - 130	30	
2-Hexanone	ND	0.025	96	97	1.0	86	85	1.2	70 - 130	30	
2-Isopropyltoluene	ND	0.005	101	100	1.0	104	97	7.0	70 - 130	30	
4-Chlorotoluene	ND	0.005	91	88	3.4	86	81	6.0	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	104	103	1.0	94	93	1.1	70 - 130	30	
Acetone	ND	0.01	84	84	0.0	76	74	2.7	70 - 130	30	
Acrylonitrile	ND	0.005	100	100	0.0	89	93	4.4	70 - 130	30	
Benzene	ND	0.001	98	96	2.1	99	95	4.1	70 - 130	30	
Bromobenzene	ND	0.005	93	93	0.0	91	85	6.8	70 - 130	30	
Bromochloromethane	ND	0.005	89	89	0.0	88	85	3.5	70 - 130	30	
Bromodichloromethane	ND	0.005	100	98	2.0	97	96	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCF78425

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromoform	ND	0.005	105	105	0.0	90	91	1.1	70 - 130	30	
Bromomethane	ND	0.005	108	108	0.0	135	117	14.3	70 - 130	30	m
Carbon Disulfide	ND	0.005	106	103	2.9	106	102	3.8	70 - 130	30	
Carbon tetrachloride	ND	0.005	101	101	0.0	98	99	1.0	70 - 130	30	
Chlorobenzene	ND	0.005	95	94	1.1	92	88	4.4	70 - 130	30	
Chloroethane	ND	0.005	97	97	0.0	111	107	3.7	70 - 130	30	
Chloroform	ND	0.005	90	91	1.1	92	89	3.3	70 - 130	30	
Chloromethane	ND	0.005	112	109	2.7	103	101	2.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	90	84	6.9	84	108	25.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	98	97	1.0	92	88	4.4	70 - 130	30	
Dibromochloromethane	ND	0.003	111	112	0.9	98	98	0.0	70 - 130	30	
Dibromomethane	ND	0.005	92	91	1.1	88	88	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	113	112	0.9	116	112	3.5	70 - 130	30	
Ethylbenzene	ND	0.001	100	98	2.0	100	94	6.2	70 - 130	30	
Hexachlorobutadiene	ND	0.005	97	91	6.4	95	83	13.5	70 - 130	30	
Isopropylbenzene	ND	0.001	95	93	2.1	97	93	4.2	70 - 130	30	
m&p-Xylene	ND	0.002	96	94	2.1	95	90	5.4	70 - 130	30	
Methyl ethyl ketone	ND	0.005	92	95	3.2	82	80	2.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	94	94	0.0	92	95	3.2	70 - 130	30	
Methylene chloride	ND	0.005	83	82	1.2	85	85	0.0	70 - 130	30	
Naphthalene	ND	0.005	107	108	0.9	81	72	11.8	70 - 130	30	
n-Butylbenzene	ND	0.001	94	90	4.3	90	81	10.5	70 - 130	30	
n-Propylbenzene	ND	0.001	94	93	1.1	97	90	7.5	70 - 130	30	
o-Xylene	ND	0.002	97	97	0.0	98	92	6.3	70 - 130	30	
p-Isopropyltoluene	ND	0.001	96	93	3.2	98	90	8.5	70 - 130	30	
sec-Butylbenzene	ND	0.001	101	99	2.0	104	97	7.0	70 - 130	30	
Styrene	ND	0.005	97	96	1.0	93	87	6.7	70 - 130	30	
tert-Butylbenzene	ND	0.001	95	95	0.0	99	94	5.2	70 - 130	30	
Tetrachloroethene	ND	0.005	94	93	1.1	97	87	10.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	97	96	1.0	87	86	1.2	70 - 130	30	
Toluene	ND	0.001	98	96	2.1	99	93	6.3	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	98	94	4.2	99	97	2.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	98	95	3.1	90	87	3.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	116	116	0.0	96	94	2.1	70 - 130	30	
Trichloroethene	ND	0.005	95	95	0.0	97	92	5.3	70 - 130	30	
Trichlorofluoromethane	ND	0.005	105	102	2.9	117	111	5.3	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	101	101	0.0	108	106	1.9	70 - 130	30	
Vinyl chloride	ND	0.005	106	104	1.9	108	105	2.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	97	99	2.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	99	%	101	101	0.0	100	100	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	101	102	1.0	97	98	1.0	70 - 130	30	
% Toluene-d8	100	%	101	99	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%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 527623 (mg/Kg), QC Sample No: CF78144 (CF78434, CF78435, CF78436, CF78438, CF78439, CF78440)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	84	85	1.2				70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	90	91	1.1				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	76	78	2.6				70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	82	82	0.0				70 - 130	30	
1,1-Dichloroethane	ND	0.005	89	89	0.0				70 - 130	30	

QA/QC Data

SDG I.D.: GCF78425

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1-Dichloroethene	ND	0.005	94	93	1.1				70 - 130	30
1,1-Dichloropropene	ND	0.005	86	86	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	0.005	74	75	1.3				70 - 130	30
1,2,3-Trichloropropane	ND	0.005	75	75	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	0.005	73	71	2.8				70 - 130	30
1,2,4-Trimethylbenzene	ND	0.001	77	77	0.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	0.005	83	82	1.2				70 - 130	30
1,2-Dibromoethane	ND	0.005	78	80	2.5				70 - 130	30
1,2-Dichlorobenzene	ND	0.005	74	74	0.0				70 - 130	30
1,2-Dichloroethane	ND	0.005	83	84	1.2				70 - 130	30
1,2-Dichloropropane	ND	0.005	86	86	0.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	0.001	78	78	0.0				70 - 130	30
1,3-Dichlorobenzene	ND	0.005	74	73	1.4				70 - 130	30
1,3-Dichloropropane	ND	0.005	78	79	1.3				70 - 130	30
1,4-Dichlorobenzene	ND	0.005	72	72	0.0				70 - 130	30
2,2-Dichloropropane	ND	0.005	94	94	0.0				70 - 130	30
2-Chlorotoluene	ND	0.005	76	76	0.0				70 - 130	30
2-Hexanone	ND	0.025	87	88	1.1				70 - 130	30
2-Isopropyltoluene	ND	0.005	89	90	1.1				70 - 130	30
4-Chlorotoluene	ND	0.005	74	74	0.0				70 - 130	30
4-Methyl-2-pentanone	ND	0.025	98	98	0.0				70 - 130	30
Acetone	ND	0.01	81	81	0.0				70 - 130	30
Acrylonitrile	ND	0.005	100	101	1.0				70 - 130	30
Benzene	ND	0.001	88	89	1.1				70 - 130	30
Bromobenzene	ND	0.005	76	77	1.3				70 - 130	30
Bromochloromethane	ND	0.005	88	89	1.1				70 - 130	30
Bromodichloromethane	ND	0.005	87	90	3.4				70 - 130	30
Bromoform	ND	0.005	87	87	0.0				70 - 130	30
Bromomethane	ND	0.005	117	114	2.6				70 - 130	30
Carbon Disulfide	ND	0.005	101	100	1.0				70 - 130	30
Carbon tetrachloride	ND	0.005	97	96	1.0				70 - 130	30
Chlorobenzene	ND	0.005	78	79	1.3				70 - 130	30
Chloroethane	ND	0.005	102	101	1.0				70 - 130	30
Chloroform	ND	0.005	86	87	1.2				70 - 130	30
Chloromethane	ND	0.005	103	102	1.0				70 - 130	30
cis-1,2-Dichloroethene	ND	0.005	89	90	1.1				70 - 130	30
cis-1,3-Dichloropropene	ND	0.005	86	87	1.2				70 - 130	30
Dibromochloromethane	ND	0.003	86	87	1.2				70 - 130	30
Dibromomethane	ND	0.005	84	85	1.2				70 - 130	30
Dichlorodifluoromethane	ND	0.005	101	100	1.0				70 - 130	30
Ethylbenzene	ND	0.001	82	82	0.0				70 - 130	30
Hexachlorobutadiene	ND	0.005	78	80	2.5				70 - 130	30
Isopropylbenzene	ND	0.001	78	79	1.3				70 - 130	30
m&p-Xylene	ND	0.002	81	81	0.0				70 - 130	30
Methyl ethyl ketone	ND	0.005	88	89	1.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	0.001	96	95	1.0				70 - 130	30
Methylene chloride	ND	0.005	82	82	0.0				70 - 130	30
Naphthalene	ND	0.005	78	79	1.3				70 - 130	30
n-Butylbenzene	ND	0.001	79	78	1.3				70 - 130	30
n-Propylbenzene	ND	0.001	77	77	0.0				70 - 130	30
o-Xylene	ND	0.002	82	81	1.2				70 - 130	30
p-Isopropyltoluene	ND	0.001	79	79	0.0				70 - 130	30
sec-Butylbenzene	ND	0.001	84	84	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GCF78425

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Styrene	ND	0.005	81	81	0.0				70 - 130	30
tert-Butylbenzene	ND	0.001	79	79	0.0				70 - 130	30
Tetrachloroethene	ND	0.005	85	84	1.2				70 - 130	30
Tetrahydrofuran (THF)	ND	0.005	99	98	1.0				70 - 130	30
Toluene	ND	0.001	87	88	1.1				70 - 130	30
trans-1,2-Dichloroethene	ND	0.005	89	89	0.0				70 - 130	30
trans-1,3-Dichloropropene	ND	0.005	88	88	0.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	0.005	103	103	0.0				70 - 130	30
Trichloroethene	ND	0.005	85	85	0.0				70 - 130	30
Trichlorofluoromethane	ND	0.005	108	107	0.9				70 - 130	30
Trichlorotrifluoroethane	ND	0.005	109	108	0.9				70 - 130	30
Vinyl chloride	ND	0.005	109	108	0.9				70 - 130	30
% 1,2-dichlorobenzene-d4	102	%	101	101	0.0				70 - 130	30
% Bromofluorobenzene	99	%	102	102	0.0				70 - 130	30
% Dibromofluoromethane	103	%	104	105	1.0				70 - 130	30
% Toluene-d8	101	%	102	102	0.0				70 - 130	30

Comment:

The Low Level MS/MSD are not reported for this batch.

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

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

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

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

Phyllis Shiller, Laboratory Director
May 08, 2020

Friday, May 08, 2020

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCF78425 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF78425	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	7.2	1.6	3	3	ug/Kg
CF78425	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	18	7.8	3	3	ug/Kg
CF78425	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.184	0.010	0.015	0.015	mg/L
CF78425	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.184	0.010	0.15	0.15	mg/L
CF78426	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	16	7.7	3	3	ug/Kg
CF78426	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	4.0	1.5	3	3	ug/Kg
CF78427	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	190	37	3	3	ug/Kg
CF78427	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	24	7.4	3	3	ug/Kg
CF78427	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	440	74	3	3	ug/Kg
CF78427	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	440	74	20	20	ug/Kg
CF78427	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	190	37	20	20	ug/Kg
CF78427	$PEST_SMR	4,4' -DDD	CT / RSR GB (mg/kg) / APS Organics	24	7.4	20	20	ug/Kg
CF78427	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	613	0.35	400	400	mg/Kg
CF78427	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.057	0.010	0.015	0.015	mg/L
CF78428	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	4.3	1.6	3	3	ug/Kg
CF78428	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	32	8.1	3	3	ug/Kg
CF78428	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	57	8.1	3	3	ug/Kg
CF78428	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	57	8.1	20	20	ug/Kg
CF78428	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	32	8.1	20	20	ug/Kg
CF78430	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	5.3	1.5	3	3	ug/Kg
CF78430	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	7.3	1.5	3	3	ug/Kg
CF78430	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	4.6	1.5	3	3	ug/Kg
CF78431	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	3.8	1.4	3	3	ug/Kg
CF78431	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	23	7.1	3	3	ug/Kg
CF78431	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	7.2	1.4	3	3	ug/Kg
CF78431	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	23	7.1	20	20	ug/Kg
CF78432	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	23	7.5	3	3	ug/Kg
CF78432	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	5.3	1.5	3	3	ug/Kg
CF78432	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	23	7.5	20	20	ug/Kg
CF78432	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.422	0.010	0.015	0.015	mg/L
CF78432	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.422	0.010	0.15	0.15	mg/L
CF78433	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	24	7.7	3	3	ug/Kg
CF78433	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	40	7.7	3	3	ug/Kg
CF78433	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	24	7.7	20	20	ug/Kg
CF78433	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	40	7.7	20	20	ug/Kg
CF78437	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	5.7	1.5	3	3	ug/Kg

Friday, May 08, 2020

Criteria: CT: GAM, GBM, RC

State: CT

Sample Criteria Exceedances Report

GCF78425 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF78437	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	16	7.5	3	3	ug/Kg
CF78438	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	16	7.6	3	3	ug/Kg
CF78438	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	63	7.6	3	3	ug/Kg
CF78438	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	63	7.6	20	20	ug/Kg
CF78440	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	4.4	1.5	3	3	ug/Kg
CF78440	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	13	7.5	3	3	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** TRC Environmental Corp.

Project Location: CONN DOT-RT 15 MERRITT PARKW ***Project Number:***

Laboratory Sample ID(s): CF78425-CF78440 ***Sampling Date(s):*** 4/23/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***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: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Friday, May 08, 2020

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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

NY # 11301

RCP Certification Report

May 08, 2020

SDG I.D.: GCF78425

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 527443 (Samples: CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431): -----

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% n-Pentacosane)

QC Batch 527493 (Samples: CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440): -----

The blank surrogate was below criteria. (% n-Pentacosane(CF77947))

Instrument:

AU-FID1 04/24/20-1 Jeff Bucko, Chemist 04/24/20

CF78425 (5X), CF78426 (1X), CF78428 (1X), CF78436 (5X)

The initial calibration (ETPH403I) 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 (424A003_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 04/24/20-1 Jeff Bucko, Chemist 04/24/20

CF78427 (1X), CF78429 (1X), CF78430 (1X), CF78431 (1X)

The initial calibration (ETPH420I) 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 (424A003_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 04/27/20-1 Jeff Bucko, Chemist 04/27/20

CF78433 (1X)

The initial calibration (ETPH420I) 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 (427A003) 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 04/23/20-1 Jeff Bucko, Chemist 04/23/20

CF78432 (1X), CF78434 (1X), CF78435 (1X), CF78437 (1X), CF78438 (1X), CF78439 (1X), CF78440 (1X)

The initial calibration (ETPH211I) 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 (423A003_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 527493 (CF77947)

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 08, 2020

SDG I.D.: GCF78425

ETPH Narration

CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440

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 527443 (CF78429)

CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431

All LCS recoveries were within 60 - 120 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: % n-Pentacosane(31.9%)
This batch consists of a Blank, LCS, MS and MSD.
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 04/24/20 07:53 Rick Schweitzer, Chemist 04/24/20

CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 04/27/20 09:50 Rick Schweitzer, Chemist 04/27/20

CF78439, CF78440

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 527582 (CF78028)

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

Certification Report

May 08, 2020

SDG I.D.: GCF78425

Mercury Narration

CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438

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 527626 (CF77251)

CF78439, CF78440

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 04/25/20 08:41 Cindy Pearce, Chemist 04/25/20

CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440

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 05/07/20 09:29 Tina Hall, Chemist 05/07/20

CF78425, CF78427, CF78432

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 529021 (CF77609)

CF78425, CF78427, CF78432

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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NY # 11301

Certification Report

May 08, 2020

SDG I.D.: GCF78425

ICP Metals Narration

QC (Site Specific):

Batch 527649 (CF78425)

CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440

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%.

PEST Narration

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

Instrument:

AU-ECD35 04/24/20-1 Chelsey Guerette, Chemist 04/24/20

CF78427 (10X), CF78433 (2X)

The initial calibration (PS0424AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0424BI) 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 04/27/20-1 Chelsey Guerette, Chemist 04/27/20

CF78427 (2X, 20X), CF78434 (2X), CF78435 (2X), CF78436 (2X), CF78437 (2X), CF78438 (2X), CF78439 (2X), CF78440 (2X)

The initial calibration (PS0424AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0424BI) 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 04/24/20-1 Chelsey Guerette, Chemist 04/24/20

CF78426 (2X), CF78429 (2X), CF78430 (2X), CF78431 (2X), CF78432 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 04/23/20-2 Chelsey Guerette, Chemist 04/23/20

CF78425 (2X), CF78428 (2X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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: CF78425, CF78428
Preceding CC 423A088 - Methoxychlor -21%L (20%)

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NY # 11301

RCP Certification Report

May 08, 2020

SDG I.D.: GCF78425

PEST Narration

Succeeding CC 423A102 - None.
A low "1A" standard was run after the samples to demonstrate capability to detect any compounds outside of the CC acceptance criteria. All reported samples were ND for the affected compounds.

QC (Batch Specific):

Batch 527522 (CF75465)

CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433

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 527689 (CF78437)

CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440

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.
This batch consists of a Blank, LCS and LCSD.

SVOA Narration

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

Instrument:

CHEM07 04/24/20-2 Matt Richard, Chemist 04/24/20

CF78425 (1X), CF78426 (1X), CF78427 (1X), CF78428 (1X), CF78429 (1X), CF78430 (1X), CF78431 (1X), CF78432 (1X), CF78433 (1X), CF78434 (1X), CF78435 (1X), CF78436 (1X), CF78437 (1X), CF78438 (1X), CF78439 (1X), CF78440 (1X)

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM07/7_BN_0407):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Indeno(1,2,3-cd)pyrene 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 (CHEM07/0424_23-7_BN_0407):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 527638 (CF78425)

CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431, CF78432, CF78433, CF78434, CF78435, CF78436, CF78437,

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RCP Certification Report

May 08, 2020

SDG I.D.: GCF78425

SVOA Narration

CF78438, CF78439, CF78440

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 40 - 140 with the following exceptions: None.
All MSD recoveries were within 40 - 140 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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

QC Batch 527605 (Samples: CF78425, CF78426, CF78427, CF78428, CF78429): -----

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. (Dichlorodifluoromethane)

Instrument:

CHEM14 04/23/20-2 Harry Mullin, Chemist 04/23/20

CF78425 (1X), CF78426 (1X), CF78427 (1X), CF78428 (1X), CF78429 (1X)

Initial Calibration Evaluation (CHEM14/VT042020):
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 Table 4 recommended minimum response factors: Tetrachloroethene 0.189 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0423_36-VT042020):
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.

CHEM26 04/23/20-2 Harry Mullin, Chemist 04/23/20

CF78434 (1X), CF78435 (1X), CF78436 (1X), CF78438 (1X), CF78439 (1X), CF78440 (1X)

Initial Calibration Evaluation (CHEM26/VT-040920):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Acetone 29% (20%), Bromoform 21% (20%), Chloroethane 21% (20%), trans-1,4-dichloro-2-butene 27% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0423_05-VT-040920):
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

May 08, 2020

SDG I.D.: GCF78425

VOA Narration

The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM26 04/24/20-1 Jane Li, Chemist 04/24/20

CF78434 (50X), CF78436 (50X), CF78437 (1X, 50X)

Initial Calibration Evaluation (CHEM26/VT-040920):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Acetone 29% (20%), Bromoform 21% (20%), Chloroethane 21% (20%), trans-1,4-dichloro-2-butene 27% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0424_02-VT-040920):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM31 04/23/20-2 Harry Mullin, Chemist 04/23/20

CF78430 (1X), CF78431 (1X), CF78432 (1X), CF78433 (1X)

Initial Calibration Evaluation (CHEM31/VT-L042320):
92% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 26% (20%), Acetone 28% (20%), Bromoform 31% (20%), Chloroethane 21% (20%), Dibromochloromethane 23% (20%), Naphthalene 28% (20%), trans-1,4-dichloro-2-butene 23% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: Bromoform 0.081 (0.1), Tetrachloroethene 0.186 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM31/0423_14-VT-L042320):
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 527605 (CF77756) CHEM14 4/23/2020-2

CF78425(1X), CF78426(1X), CF78427(1X), CF78428(1X), CF78429(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(137%)
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The MSD is not reported for this LL soil batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527623 (CF78144) CHEM26 4/23/2020-2

CF78434(1X), CF78435(1X), CF78436(1X), CF78438(1X), CF78439(1X), CF78440(1X)

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RCP Certification Report

May 08, 2020

SDG I.D.: GCF78425

VOA Narration

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The Low Level MS/MSD are not reported for this batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527765 (CF78098) CHEM31 4/23/2020-2

CF78430(1X), CF78431(1X), CF78432(1X), CF78433(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527787 (CF78007) CHEM26 4/24/2020-1

CF78437(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527787H (CF78007) CHEM26 4/24/2020-1

CF78434(50X), CF78436(50X), CF78437(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

The samples were received at 2.6C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

Temp 2.6°C Pg 1 of 2

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trccompanies.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: ConnDot - RT 15 Merritt Parkway
Project P.O: 152374
Report to: Christi Gagnon
Invoice to: ~~Christi Gagnon~~ TRC
QUOTE #

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Christi Gagnon Date: 4-23-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	PAH (8270)	Total RCRA 8 metal	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
78425	SB-46	S	4-23-20	1340	X	X	X	X	X		3	2									
78426	SB-47	S	4-23-20	1345	X	X	X	X	X		3	2									
78427	SB-48	S	4-23-20	1355	X	X	X	X	X		3	2									
78428	SB-49	S	4-23-20	1400	X	X	X	X	X		3	2									
78429	SB-50	S	4-23-20	1408	X	X	X	X	X		3	2									
78430	SB-51	S	4-23-20	1408	X	X	X	X	X		3	2									
78431	SB-52	S	4-23-20	1410	X	X	X	X	X		3	2									
78432	SB-53	S	4-23-20	1420	X	X	X	X	X		3	2									
78433	SB-54	S	4-23-20	1425	X	X	X	X	X		3	2									
78434	SB-55	S	4-23-20	1435	X	X	X	X	X		3	2									
78435	SB-56	S	4-23-20	1440	X	X	X	X	X		3	2									
78436	SB-57	S	4-23-20	1450	X	X	X	X	X		3	2									

Relinquished by:	Accepted by:	Date:	Time:
Christi Gagnon	[signature]	4-23-20	15:02
[signature]	[signature]	4/23/20	16:30

Comments, Special Requirements or Regulations:
non-DAS Pricing
No Sales Tax - ConnDot
Day 4

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]
Temp 2.6 Pg 2 of 2

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: tgagnon@trcconpanies.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095
Project: ConnDot - RT 15 Merritt Parkway Project P.O: 152374
Report to: Thristi Gagnon
Invoice to: TRC
QUOTE #

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: Thristi Gagnon Date: 4-23-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	PAH (8270)	Total RCRA 8 Metals	Pesticides	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] Methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
78437	SB - 58	S	4-23-20	1550	X	X	X	X			3	2									
78438	SB - 59	S	4-23-20	1540	X	X	X	X			3	2									
78439	SB - 60	S	4-23-20	1520	X	X	X	X			3	2									
78440	SB - 52 B	S	4-23-20	1515	X	X	X	X			3	2									

Relinquished by:	Accepted by:	Date:	Time:
Thristi Gagnon	Emily	4.23.20	15:02
Emily		4/23/20	16:30

Comments, Special Requirements or Regulations:
Non-DAS Pricing
No Sales Tax - ConnDot
Day 4

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[X] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Loreen Fay

From: Gagnon, Kristi <KGagnon@trccompanies.com>
Sent: Wednesday, May 06, 2020 1:49 PM
To: Loreen Fay
Subject: FW: [EXTERNAL] Phoenix Labs - GCF78425, CONN DOT-RT 15 MERRITT PARKWAY - Report Ready

Good afternoon Loreen,

Can we also run these samples for SPLP Metals for lead, standard TAT:

SB-46,
SB-48,
SB-53

Thanks,
Kristi Gagnon
Environmental Scientist II

21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | **C** 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
Sent: Thursday, April 30, 2020 4:34 PM
To: Gagnon, Kristi <KGagnon@trccompanies.com>
Subject: [EXTERNAL] Phoenix Labs - GCF78425, CONN DOT-RT 15 MERRITT PARKWAY - Report Ready

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Delivery group GCF78425 (CONN DOT-RT 15 MERRITT PARKWAY) for the following samples:

CF78425 - SB-46
CF78426 - SB-47
CF78427 - SB-48
CF78428 - SB-49
CF78429 - SB-50
CF78430 - SB-51
CF78431 - SB-52
CF78432 - SB-53
CF78433 - SB-54
CF78434 - SB-55
CF78435 - SB-56
CF78436 - SB-57
CF78437 - SB-58

CF78438 - SB-59
CF78439 - SB-60
CF78440 - SB-52 B

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

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:KGagnon@trccompanies.com

PHOENIX
Environmental Laboratories, Inc.

Saturday, May 09, 2020

Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
SDG ID: GCF79123
Sample ID#s: CF79123 - CF79141

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

May 09, 2020

SDG I.D.: GCF79123

Volatile 8260 analysis:
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet GWP criteria, these compounds are analyzed by GC/ECD to achieve this criteria.

Version 2: Per client request SPLP metals were added on.

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

Sample Id Cross Reference

May 09, 2020

SDG I.D.: GCF79123

Project ID: CONN DOT-RT 15 MERRITT PARKWAY

Client Id	Lab Id	Matrix
TB20200424L	CF79123	SOIL
EB20200424	CF79124	WATER
SB-61	CF79125	SOIL
SB-62	CF79126	SOIL
SB-63	CF79127	SOIL
SB-64	CF79128	SOIL
SB-65	CF79129	SOIL
SB-66	CF79130	SOIL
SB-67	CF79131	SOIL
SB-68	CF79132	SOIL
SB-69	CF79133	SOIL
SB-70	CF79134	SOIL
SB-71	CF79135	SOIL
SB-71B	CF79136	SOIL
SB-72	CF79137	SOIL
SB-73	CF79138	SOIL
SB-74	CF79139	SOIL
SB-75	CF79140	SOIL
TB20200424H	CF79141	SOIL

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	13:00
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79123

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: TB20200424L

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
2-Chlorotoluene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
2-Hexanone	ND	0.025	mg/Kg	1	04/24/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
4-Chlorotoluene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.025	mg/Kg	1	04/24/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: TB20200424L

Phoenix I.D.: CF79123

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	0.25	mg/Kg	1	04/24/20	JLI	SW8260C
Acrylonitrile	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Benzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Bromobenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Bromochloromethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Bromodichloromethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Bromoform	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Bromomethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Carbon Disulfide	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Carbon tetrachloride	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Chlorobenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Chloroethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Chloroform	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Chloromethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Dibromochloromethane	ND	0.003	mg/Kg	1	04/24/20	JLI	SW8260C
Dibromomethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Ethylbenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Isopropylbenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
m&p-Xylene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.03	mg/Kg	1	04/24/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.01	mg/Kg	1	04/24/20	JLI	SW8260C
Methylene chloride	ND	0.01	mg/Kg	1	04/24/20	JLI	SW8260C
Naphthalene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
n-Butylbenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
n-Propylbenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
o-Xylene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
sec-Butylbenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Styrene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
tert-Butylbenzene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Tetrachloroethene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.01	mg/Kg	1	04/24/20	JLI	SW8260C
Toluene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Total Xylenes	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.01	mg/Kg	1	04/24/20	JLI	SW8260C
Trichloroethene	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.01	mg/Kg	1	04/24/20	JLI	SW8260C
Vinyl chloride	ND	0.005	mg/Kg	1	04/24/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/24/20	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	04/24/20	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	04/24/20	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	90		%	1	04/24/20	JLI	70 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	KG	04/24/20	13:15
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79124

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: EB20200424

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/25/20	CPP	SW6010D/E200.7
Arsenic	< 0.004	0.004	mg/L	1	04/25/20	CPP	SW6010D/E200.7
Barium	< 0.002	0.002	mg/L	1	04/25/20	CPP	SW6010D/E200.7
Cadmium	< 0.001	0.001	mg/L	1	04/25/20	CPP	SW6010D/E200.7
Chromium	< 0.001	0.001	mg/L	1	04/25/20	CPP	SW6010D/E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/28/20	RS	SW7470/E245.1
Lead	< 0.002	0.002	mg/L	1	04/25/20	CPP	SW6010D/E200.7
Selenium	< 0.010	0.010	mg/L	1	04/25/20	CPP	SW6010D/E200.7
Extraction of CT ETPH	Completed				04/27/20	AT/AK	SW3510C/SW3520C
Mercury Digestion	Completed				04/27/20	RA/RA	SW7470/245.1
Extraction for Pest (LDL)	Completed				04/27/20	C	SW3510C
Semi-Volatile Extraction	Completed				04/28/20	AT/AK	SW3520C
Total Metals Digestion	Completed				04/24/20	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	04/28/20	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/28/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	04/28/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
4,4' -DDE	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
4,4' -DDT	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
a-BHC	ND	0.024	ug/L	1	04/28/20	CG	SW8081B
Alachlor	ND	0.071	ug/L	1	04/28/20	CG	SW8081B
Aldrin	ND	0.001	ug/L	1	04/28/20	CG	SW8081B
b-BHC	ND	0.005	ug/L	1	04/28/20	CG	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlordane	ND	0.28	ug/L	1	04/28/20	CG	SW8081B
d-BHC	ND	0.024	ug/L	1	04/28/20	CG	SW8081B
Dieldrin	ND	0.001	ug/L	1	04/28/20	CG	SW8081B
Endosulfan I	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
Endosulfan II	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
Endosulfan Sulfate	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
Endrin	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
Endrin Aldehyde	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
Endrin ketone	ND	0.047	ug/L	1	04/28/20	CG	SW8081B
g-BHC (Lindane)	ND	0.024	ug/L	1	04/28/20	CG	SW8081B
Heptachlor	ND	0.024	ug/L	1	04/28/20	CG	SW8081B
Heptachlor epoxide	ND	0.024	ug/L	1	04/28/20	CG	SW8081B
Methoxychlor	ND	0.094	ug/L	1	04/28/20	CG	SW8081B
Toxaphene	ND	0.94	ug/L	1	04/28/20	CG	SW8081B
QA/QC Surrogates							
%DCBP (Surrogate Rec)	54		%	1	04/28/20	CG	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	64		%	1	04/28/20	CG	30 - 150 %
%TCMX (Surrogate Rec)	69		%	1	04/28/20	CG	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	70		%	1	04/28/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/25/20	MH	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,1-Dichloroethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,1-Dichloroethene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,1-Dichloropropene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	04/25/20	MH	SW8260C
1,2-Dibromoethane	ND	0.50	ug/L	1	04/25/20	MH	SW8260C
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,2-Dichloroethane	ND	0.60	ug/L	1	04/25/20	MH	SW8260C
1,2-Dichloropropane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,3-Dichloropropane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
2,2-Dichloropropane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
2-Chlorotoluene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
2-Hexanone	ND	5.0	ug/L	1	04/25/20	MH	SW8260C
2-Isopropyltoluene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
4-Chlorotoluene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/25/20	MH	SW8260C
Acetone	ND	25	ug/L	1	04/25/20	MH	SW8260C
Acrylonitrile	ND	0.50	ug/L	1	04/25/20	MH	SW8260C
Benzene	ND	0.70	ug/L	1	04/25/20	MH	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Bromochloromethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Bromodichloromethane	ND	0.50	ug/L	1	04/25/20	MH	SW8260C
Bromoform	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Bromomethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Carbon Disulfide	ND	5.0	ug/L	1	04/25/20	MH	SW8260C
Carbon tetrachloride	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Chlorobenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Chloroethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Chloroform	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Chloromethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/25/20	MH	SW8260C
Dibromochloromethane	ND	0.50	ug/L	1	04/25/20	MH	SW8260C
Dibromomethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Hexachlorobutadiene	ND	0.40	ug/L	1	04/25/20	MH	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
m&p-Xylene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Methyl ethyl ketone	ND	5.0	ug/L	1	04/25/20	MH	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Methylene chloride	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Naphthalene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
o-Xylene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Styrene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Tetrachloroethene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/25/20	MH	SW8260C
Toluene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Total Xylenes	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/25/20	MH	SW8260C
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/25/20	MH	SW8260C
Trichloroethene	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Trichlorofluoromethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
Vinyl chloride	ND	1.0	ug/L	1	04/25/20	MH	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	04/25/20	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	04/25/20	MH	70 - 130 %
% Dibromofluoromethane	113		%	1	04/25/20	MH	70 - 130 %
% Toluene-d8	92		%	1	04/25/20	MH	70 - 130 %

Semivolatiles by SIM, PAH

2-Methylnaphthalene	ND	0.50	ug/L	1	04/29/20	WB	SW8270D (SIM)

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: EB20200424

Phoenix I.D.: CF79124

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthene	ND	0.50	ug/L	1	04/29/20	WB	SW8270D (SIM)
Acenaphthylene	ND	0.30	ug/L	1	04/29/20	WB	SW8270D (SIM)
Anthracene	ND	0.50	ug/L	1	04/29/20	WB	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/29/20	WB	SW8270D (SIM)
Benzo(a)pyrene	ND	0.20	ug/L	1	04/29/20	WB	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	04/29/20	WB	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.48	ug/L	1	04/29/20	WB	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.30	ug/L	1	04/29/20	WB	SW8270D (SIM)
Chrysene	ND	0.50	ug/L	1	04/29/20	WB	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.10	ug/L	1	04/29/20	WB	SW8270D (SIM)
Fluoranthene	ND	0.50	ug/L	1	04/29/20	WB	SW8270D (SIM)
Fluorene	ND	0.50	ug/L	1	04/29/20	WB	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.10	ug/L	1	04/29/20	WB	SW8270D (SIM)
Naphthalene	ND	0.50	ug/L	1	04/29/20	WB	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	04/29/20	WB	SW8270D (SIM)
Pyrene	ND	0.50	ug/L	1	04/29/20	WB	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	04/29/20	WB	30 - 130 %
% Nitrobenzene-d5	86		%	1	04/29/20	WB	30 - 130 %
% Terphenyl-d14	57		%	1	04/29/20	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:

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

Phyllis Shiller, Laboratory Director
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	13:25
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79125

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-61

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	4.74	0.71	mg/Kg	1	04/25/20	EK	SW6010D
Barium	59.8	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.94	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	31.1	0.36	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	04/27/20	RS	SW7471B
Lead	952	3.6	mg/Kg	10	04/27/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	EK	SW6010D
SPLP Lead	0.655	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	90		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/29/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	51		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.025	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.12	0.036	mg/Kg	10	04/29/20	CG	SW8081B
4,4' -DDT	0.37	0.036	mg/Kg	10	04/29/20	CG	SW8081B

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-61

Phoenix I.D.: CF79125

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	60		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	57		%	2	04/29/20	CG	30 - 150 %
% TCMX	50		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	51		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0019	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.016	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-61

Phoenix I.D.: CF79125

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.016	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.16	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0019	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.019	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0063	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0063	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0063	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0063	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0063	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0032	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	04/25/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-61

Phoenix I.D.: CF79125

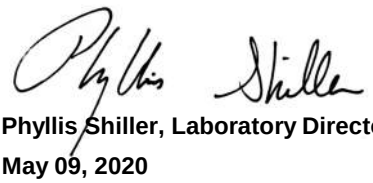
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	91		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	88		%	1	04/25/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.55	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.72	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.63	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.63	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.67	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.65	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	1.1	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.61	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.51	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	1	0.25	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	57		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	74		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	13:30
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79126

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-62

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	2.30	0.74	mg/Kg	1	04/25/20	EK	SW6010D
Barium	50.7	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.66	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	21.4	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.07	0.07	mg/Kg	5	04/27/20	RS	SW7471B
Lead	209	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	EK	SW6010D
SPLP Lead	0.059	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	93		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	04/27/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/27/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	04/27/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0014	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	ND	0.0014	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.0034	0.0014	mg/Kg	2	04/29/20	CG	SW8081B

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Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0014	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0014	mg/Kg	2	04/29/20	CG	SW8081B
b-BHC	ND	0.0014	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0014	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0072	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	58		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	59		%	2	04/29/20	CG	30 - 150 %
% TCMX	44		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	45		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/27/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
2-Chlorotoluene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/27/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
4-Chlorotoluene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-62

Phoenix I.D.: CF79126

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/27/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/27/20	JLI	SW8260C
Acrylonitrile	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Benzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Bromobenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Bromochloromethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Bromodichloromethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Bromoform	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Bromomethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Carbon Disulfide	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Carbon tetrachloride	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Chlorobenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Chloroethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Chloroform	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Chloromethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/27/20	JLI	SW8260C
Dibromomethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Ethylbenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Isopropylbenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
m&p-Xylene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/27/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.008	mg/Kg	1	04/27/20	JLI	SW8260C
Methylene chloride	ND	0.008	mg/Kg	1	04/27/20	JLI	SW8260C
Naphthalene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
n-Butylbenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
n-Propylbenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
o-Xylene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
sec-Butylbenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Styrene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
tert-Butylbenzene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Tetrachloroethene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.008	mg/Kg	1	04/27/20	JLI	SW8260C
Toluene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Total Xylenes	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.008	mg/Kg	1	04/27/20	JLI	SW8260C
Trichloroethene	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.008	mg/Kg	1	04/27/20	JLI	SW8260C
Vinyl chloride	ND	0.004	mg/Kg	1	04/27/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/27/20	JLI	70 - 130 %
% Bromofluorobenzene	73		%	1	04/27/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
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Phoenix I.D.: CF79126

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	116		%	1	04/27/20	JLI	70 - 130 %
% Toluene-d8	71		%	1	04/27/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	61		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	84		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	13:35
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79127

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-63

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	6.49	0.80	mg/Kg	1	04/25/20	EK	SW6010D
Barium	52.7	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.93	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	20.5	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	189	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	86		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.0037	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.0071	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	59		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	59		%	2	04/29/20	CG	30 - 150 %
% TCMX	48		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	45		%	2	04/29/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.019	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.019	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.19	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-63

Phoenix I.D.: CF79127

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	78		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	87		%	1	04/25/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-63

Phoenix I.D.: CF79127

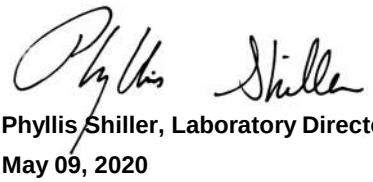
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.34	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.3	0.27	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	56		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	82		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	13:40
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79128

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-64

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	5.14	0.80	mg/Kg	1	04/25/20	EK	SW6010D
Barium	57.6	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.15	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	22.1	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	341	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/25/20	EK	SW6010D
SPLP Lead	0.206	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	83		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	53		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0028	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.014	0.008	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.032	0.008	mg/Kg	2	04/29/20	CG	SW8081B

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-64

Phoenix I.D.: CF79128

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.04	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.004	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.022	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.04	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	55		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	53		%	2	04/29/20	CG	30 - 150 %
% TCMX	42		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	41		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-64

Phoenix I.D.: CF79128

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0081	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0081	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0081	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0081	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0081	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.004	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	80		%	1	04/25/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-64

Phoenix I.D.: CF79128

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	91		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	86		%	1	04/25/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.32	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.38	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.36	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.3	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.3	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.39	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.66	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.29	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.3	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.59	0.27	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	84		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	13:45
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79129

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-65

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	5.40	0.73	mg/Kg	1	04/25/20	EK	SW6010D
Barium	68.7	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.14	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	27.1	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	301	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	EK	SW6010D
SPLP Lead	0.375	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	82		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	04/27/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/27/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	04/27/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0061	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.011	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.044	0.0081	mg/Kg	2	04/29/20	CG	SW8081B

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-65

Phoenix I.D.: CF79129

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.041	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.0041	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0081	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.041	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	52		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	53		%	2	04/29/20	CG	30 - 150 %
% TCMX	38		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	41		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
4-Chlorotoluene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-65

Phoenix I.D.: CF79129

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
Bromochloromethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/27/20	JLI	SW8260C
Isopropylbenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
m&p-Xylene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.027	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
n-Butylbenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
n-Propylbenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
o-Xylene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
sec-Butylbenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
Styrene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.33	mg/Kg	50	04/27/20	JLI	SW8260C
Tetrachloroethene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.66	mg/Kg	50	04/27/20	JLI	SW8260C
Trichloroethene	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0045	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	75		%	1	04/25/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-65

Phoenix I.D.: CF79129

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	94		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	85		%	1	04/25/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	102		%	50	04/27/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	81		%	50	04/27/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	108		%	50	04/27/20	JLI	70 - 130 %
% Toluene-d8 (50x)	77		%	50	04/27/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.3	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.39	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.36	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.29	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.33	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.38	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.64	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.57	0.28	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	61		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	83		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		SW5035A

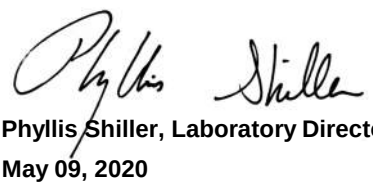
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 2

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	13:55
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79130

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-66

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	4.22	0.70	mg/Kg	1	04/25/20	EK	SW6010D
Barium	66.9	0.35	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.06	0.35	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	25.9	0.35	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	0.05	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	244	0.35	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	EK	SW6010D
SPLP Lead	0.244	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	88		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	57		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0023	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.014	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.038	0.0076	mg/Kg	2	04/29/20	CG	SW8081B

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-66

Phoenix I.D.: CF79130

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	52		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	50		%	2	04/29/20	CG	30 - 150 %
% TCMX	39		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	40		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0024	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
4-Chlorotoluene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-66

Phoenix I.D.: CF79130

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
Bromochloromethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0024	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/27/20	JLI	SW8260C
Isopropylbenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
m&p-Xylene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.024	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0078	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0078	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
n-Butylbenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
n-Propylbenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
o-Xylene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
sec-Butylbenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
Styrene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.27	mg/Kg	50	04/27/20	JLI	SW8260C
Tetrachloroethene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0078	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.54	mg/Kg	50	04/27/20	JLI	SW8260C
Trichloroethene	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0078	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0039	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	76		%	1	04/25/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-66

Phoenix I.D.: CF79130

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	95		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	84		%	1	04/25/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	100		%	50	04/27/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	82		%	50	04/27/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	106		%	50	04/27/20	JLI	70 - 130 %
% Toluene-d8 (50x)	78		%	50	04/27/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.32	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.34	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.31	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.48	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.45	0.26	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	57		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	76		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		SW5035A

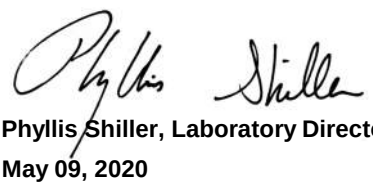
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

Ver 2

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:00
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79131

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-67

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	6.59	0.79	mg/Kg	1	04/25/20	EK	SW6010D
Barium	156	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.54	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	25.3	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	186	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	83		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.003	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.014	0.008	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.015	0.008	mg/Kg	2	04/29/20	CG	SW8081B
a-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.04	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.004	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.008	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.04	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	56		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	59		%	2	04/29/20	CG	30 - 150 %
% TCMX	49		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	46		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0025	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
2-Hexanone	ND	0.02	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
4-Chlorotoluene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.02	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.2	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-67

Phoenix I.D.: CF79131

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
Bromochloromethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0025	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/27/20	JLI	SW8260C
Isopropylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
m&p-Xylene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.025	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0082	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0082	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
n-Butylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
n-Propylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
o-Xylene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
sec-Butylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
Styrene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
Tetrachloroethene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0082	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.7	mg/Kg	50	04/27/20	JLI	SW8260C
Trichloroethene	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0082	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0041	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	90		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	73		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	84		%	1	04/25/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	102		%	50	04/27/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-67

Phoenix I.D.: CF79131

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	81		%	50	04/27/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	104		%	50	04/27/20	JLI	70 - 130 %
% Toluene-d8 (50x)	78		%	50	04/27/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.38	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.59	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.51	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.44	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.42	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.44	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.66	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.44	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.62	0.28	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	58		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	76		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:05
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79132

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-68

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.48	0.48	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	8.76	0.96	mg/Kg	1	04/25/20	EK	SW6010D
Barium	80.5	0.48	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.53	0.48	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	32.6	0.48	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	0.06	0.04	mg/Kg	2	04/27/20	RS	SW7471B
Lead	132	0.48	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.9	1.9	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	71		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	69	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0025	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.022	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.041	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
a-BHC	ND	0.0019	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0019	mg/Kg	2	04/29/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0019	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.046	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0019	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.0046	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0019	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0093	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.046	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.19	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	50		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	55		%	2	04/29/20	CG	30 - 150 %
% TCMX	44		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	43		%	2	04/29/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.022	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.022	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.22	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-68

Phoenix I.D.: CF79132

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.027	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0089	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0044	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	89		%	1	04/25/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-68

Phoenix I.D.: CF79132

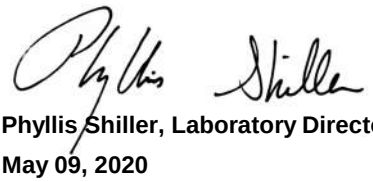
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.5	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.32	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.44	0.32	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	60		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	82		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:10
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79133

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-69

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	13.2	0.83	mg/Kg	1	04/25/20	EK	SW6010D
Barium	55.1	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.19	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	17.8	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	120	0.42	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.7	1.7	mg/Kg	1	04/25/20	EK	SW6010D
SPLP Arsenic	0.007	0.004	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	86		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	120	57	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	91		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.041	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.31	0.038	mg/Kg	10	04/29/20	CG	SW8081B
4,4' -DDT	0.77	0.077	mg/Kg	20	04/29/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
b-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.005	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0077	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	58		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	04/29/20	CG	30 - 150 %
% TCMX	44		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	46		%	2	04/29/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0021	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.017	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-69

Phoenix I.D.: CF79133

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.017	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.17	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0021	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.021	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.007	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.007	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.007	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.007	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.007	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0035	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	79		%	1	04/25/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-69

Phoenix I.D.: CF79133

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	94		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	86		%	1	04/25/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.32	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.4	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.36	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.29	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.3	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.39	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.63	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.27	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.6	0.27	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	60		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	82		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:15
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79134

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-70

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	4.60	0.80	mg/Kg	1	04/25/20	EK	SW6010D
Barium	79.2	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.36	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	23.9	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	373	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/25/20	EK	SW6010D
SPLP Lead	0.081	0.010	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	84		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	140	59	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	92		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.003	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.0057	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.028	0.0078	mg/Kg	2	04/29/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
b-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	51		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	54		%	2	04/29/20	CG	30 - 150 %
% TCMX	44		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	43		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0015	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.013	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-70

Phoenix I.D.: CF79134

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.013	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.13	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0015	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.015	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0051	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0051	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0051	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0051	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0051	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0026	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	04/25/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-70

Phoenix I.D.: CF79134

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	93		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	88		%	1	04/25/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.47	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.52	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.54	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.35	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.44	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.55	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.98	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.35	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.42	0.27	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.91	0.27	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	57		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	79		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:20
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79135

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-71

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	6.67	0.69	mg/Kg	1	04/25/20	EK	SW6010D
Barium	66.7	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.12	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	21.9	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	189	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	90		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/28/20	VV/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	92		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0053	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.029	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDT	0.089	0.036	mg/Kg	10	04/29/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.036	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.0036	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0073	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.036	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	55		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	62		%	2	04/29/20	CG	30 - 150 %
% TCMX	48		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	45		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0016	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.014	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.014	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.14	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-71

Phoenix I.D.: CF79135

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0016	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.016	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0054	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0054	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0054	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0054	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0054	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0027	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	90		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	82		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	87		%	1	04/25/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-71

Phoenix I.D.: CF79135

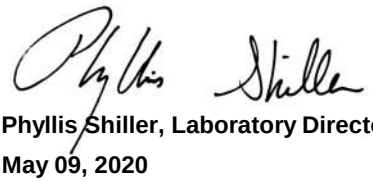
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.4	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.46	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.48	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.32	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.35	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.45	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.92	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.32	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.46	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.82	0.25	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	82		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:25
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79136

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-71B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	7.06	0.68	mg/Kg	1	04/25/20	EK	SW6010D
Barium	60.5	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.91	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	20.9	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	150	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.4	1.4	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	87		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/27/20	LL/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0056	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDE	0.028	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDT	0.08	0.038	mg/Kg	10	04/29/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Alachlor	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Chlordane	ND	0.038	mg/Kg	2	04/28/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Dieldrin	ND	0.0038	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan I	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan II	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan sulfate	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
Endrin	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
Endrin aldehyde	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
Endrin ketone	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor epoxide	ND	0.0076	mg/Kg	2	04/28/20	CG	SW8081B
Methoxychlor	ND	0.038	mg/Kg	2	04/28/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/28/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	43		%	2	04/28/20	CG	30 - 150 %
% DCBP (Confirmation)	47		%	2	04/28/20	CG	30 - 150 %
% TCMX	39		%	2	04/28/20	CG	30 - 150 %
% TCMX (Confirmation)	39		%	2	04/28/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0022	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.018	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.018	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.18	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-71B

Phoenix I.D.: CF79136

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0022	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.022	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0074	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0037	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	80		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	86		%	1	04/25/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-71B

Phoenix I.D.: CF79136

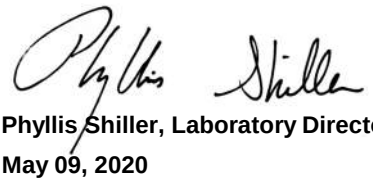
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.33	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.4	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.37	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.29	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.31	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.37	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.75	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.28	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.42	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.65	0.26	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	53		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	70		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:35
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79137

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-72

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	5.80	0.78	mg/Kg	1	04/25/20	EK	SW6010D
Barium	80.4	0.39	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.96	0.39	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	22.1	0.39	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	180	0.39	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	88		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/27/20	LL/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	ND	0.0016	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDE	0.0037	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDT	0.012	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
a-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Alachlor	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
Aldrin	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Chlordane	ND	0.037	mg/Kg	2	04/28/20	CG	SW8081B
d-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Dieldrin	ND	0.0037	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan I	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan II	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan sulfate	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
Endrin	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
Endrin aldehyde	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
Endrin ketone	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
g-BHC	ND	0.0015	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor epoxide	ND	0.0075	mg/Kg	2	04/28/20	CG	SW8081B
Methoxychlor	ND	0.037	mg/Kg	2	04/28/20	CG	SW8081B
Toxaphene	ND	0.15	mg/Kg	2	04/28/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	47		%	2	04/28/20	CG	30 - 150 %
% DCBP (Confirmation)	50		%	2	04/28/20	CG	30 - 150 %
% TCMX	46		%	2	04/28/20	CG	30 - 150 %
% TCMX (Confirmation)	46		%	2	04/28/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.002	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.016	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.016	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.16	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-72

Phoenix I.D.: CF79137

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.002	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.02	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0066	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0066	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0066	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0066	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0066	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0033	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	78		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	86		%	1	04/25/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-72

Phoenix I.D.: CF79137

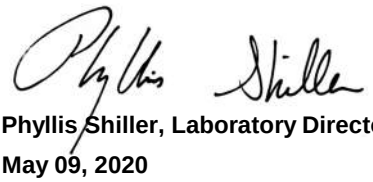
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.32	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.4	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.36	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.31	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.37	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.37	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.74	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.29	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.39	0.26	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.66	0.26	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	56		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	75		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:40
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79138

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-73

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	5.88	0.80	mg/Kg	1	04/25/20	EK	SW6010D
Barium	85.9	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	1.14	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	28.0	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	158	0.40	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.6	1.6	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	84		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/27/20	LL/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	88		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0028	0.0016	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDE	0.011	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDT	0.023	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
a-BHC	ND	0.0016	mg/Kg	2	04/28/20	CG	SW8081B
Alachlor	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/28/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0016	mg/Kg	2	04/28/20	CG	SW8081B
Chlordane	ND	0.039	mg/Kg	2	04/28/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/28/20	CG	SW8081B
Dieldrin	ND	0.0039	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan I	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan II	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan sulfate	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
Endrin	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
Endrin aldehyde	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
Endrin ketone	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor epoxide	ND	0.0078	mg/Kg	2	04/28/20	CG	SW8081B
Methoxychlor	ND	0.039	mg/Kg	2	04/28/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/28/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	54		%	2	04/28/20	CG	30 - 150 %
% DCBP (Confirmation)	56		%	2	04/28/20	CG	30 - 150 %
% TCMX	49		%	2	04/28/20	CG	30 - 150 %
% TCMX (Confirmation)	48		%	2	04/28/20	CG	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-73

Phoenix I.D.: CF79138

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.017	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0058	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0058	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0058	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.0058	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0058	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.0029	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	91		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	87		%	1	04/25/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-73

Phoenix I.D.: CF79138

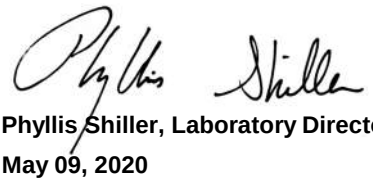
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.29	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.46	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.45	0.28	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	52		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	74		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:45
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79139

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-74

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	11.7	0.67	mg/Kg	1	04/25/20	EK	SW6010D
Barium	90.6	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.82	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	28.0	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	51.1	0.34	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.3	1.3	mg/Kg	1	04/25/20	EK	SW6010D
SPLP Arsenic	0.006	0.004	mg/L	1	05/07/20	TH	SW6010D
SPLP Metals Digestion	Completed				05/07/20	RA/RA	SW3010A
Percent Solid	94		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/27/20	LL/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/MA	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
SPLP Extraction for Metals	Completed				05/06/20	RA	SW1312
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	93		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.0018	0.0014	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDE	0.005	0.0014	mg/Kg	2	04/28/20	CG	SW8081B
4,4' -DDT	0.02	0.007	mg/Kg	2	04/28/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
a-BHC	ND	0.0014	mg/Kg	2	04/28/20	CG	SW8081B
Alachlor	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
Aldrin	ND	0.0014	mg/Kg	2	04/28/20	CG	SW8081B
b-BHC	ND	0.0014	mg/Kg	2	04/28/20	CG	SW8081B
Chlordane	ND	0.035	mg/Kg	2	04/28/20	CG	SW8081B
d-BHC	ND	0.0014	mg/Kg	2	04/28/20	CG	SW8081B
Dieldrin	ND	0.0035	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan I	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan II	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
Endosulfan sulfate	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
Endrin	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
Endrin aldehyde	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
Endrin ketone	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
g-BHC	ND	0.0014	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
Heptachlor epoxide	ND	0.007	mg/Kg	2	04/28/20	CG	SW8081B
Methoxychlor	ND	0.035	mg/Kg	2	04/28/20	CG	SW8081B
Toxaphene	ND	0.14	mg/Kg	2	04/28/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	36		%	2	04/28/20	CG	30 - 150 %
% DCBP (Confirmation)	41		%	2	04/28/20	CG	30 - 150 %
% TCMX	36		%	2	04/28/20	CG	30 - 150 %
% TCMX (Confirmation)	35		%	2	04/28/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-74

Phoenix I.D.: CF79139

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.018	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.006	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.006	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.006	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.006	mg/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.006	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	04/25/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-74

Phoenix I.D.: CF79139

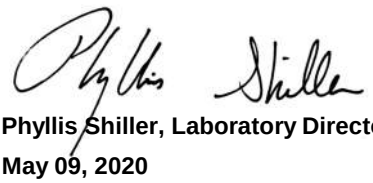
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	98		%	1	04/25/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	ND	0.25	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	59		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	84		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	14:50
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79140

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-75

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Arsenic	5.09	0.73	mg/Kg	1	04/25/20	EK	SW6010D
Barium	93.9	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Cadmium	0.88	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Chromium	19.3	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Mercury	< 0.03	0.03	mg/Kg	2	04/27/20	RS	SW7471B
Lead	143	0.37	mg/Kg	1	04/25/20	EK	SW6010D
Selenium	< 1.5	1.5	mg/Kg	1	04/25/20	EK	SW6010D
Percent Solid	82		%		04/24/20	VT	SW846-%Solid
Soil Extraction for Pesticide	Completed				04/27/20	LL/AA	SW3545A
Soil Extraction SVOA PAH	Completed				04/24/20	KK/EE	SW3545A
Mercury Digestion	Completed				04/27/20	RA/RA	SW7471B
Extraction of CT ETPH	Completed				04/24/20	KB/MA	SW3546
Total Metals Digest	Completed				04/24/20	S/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	60	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	89		%	1	04/25/20	JRB	50 - 150 %
Pesticides							
4,4' -DDD	0.012	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
4,4' -DDE	0.27	0.079	mg/Kg	20	04/28/20	CG	SW8081B
4,4' -DDT	0.24	0.079	mg/Kg	20	04/28/20	CG	SW8081B
a-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Alachlor	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
Aldrin	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B

Ver 2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
b-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Chlordane	ND	0.04	mg/Kg	2	04/29/20	CG	SW8081B
d-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Dieldrin	ND	0.005	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan I	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan II	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
Endosulfan sulfate	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
Endrin	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
Endrin aldehyde	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
Endrin ketone	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
g-BHC	ND	0.0016	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
Heptachlor epoxide	ND	0.0079	mg/Kg	2	04/29/20	CG	SW8081B
Methoxychlor	ND	0.04	mg/Kg	2	04/29/20	CG	SW8081B
Toxaphene	ND	0.16	mg/Kg	2	04/29/20	CG	SW8081B
QA/QC Surrogates							
% DCBP	56		%	2	04/29/20	CG	30 - 150 %
% DCBP (Confirmation)	61		%	2	04/29/20	CG	30 - 150 %
% TCMX	50		%	2	04/29/20	CG	30 - 150 %
% TCMX (Confirmation)	49		%	2	04/29/20	CG	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.0018	mg/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
2-Hexanone	ND	0.015	mg/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
4-Chlorotoluene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	0.015	mg/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	0.15	mg/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-75

Phoenix I.D.: CF79140

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
Bromochloromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.0018	mg/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/27/20	JLI	SW8260C
Isopropylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
m&p-Xylene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	0.018	mg/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.0061	mg/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.0061	mg/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
n-Butylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
n-Propylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
o-Xylene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
sec-Butylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
Styrene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.35	mg/Kg	50	04/27/20	JLI	SW8260C
Tetrachloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.0061	mg/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.69	mg/Kg	50	04/27/20	JLI	SW8260C
Trichloroethene	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.0061	mg/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.003	mg/Kg	1	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	84		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	95		%	1	04/25/20	JLI	70 - 130 %
% 1,2-dichlorobenzene-d4 (50x)	101		%	50	04/27/20	JLI	70 - 130 %

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: SB-75

Phoenix I.D.: CF79140

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	96		%	50	04/27/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	103		%	50	04/27/20	JLI	70 - 130 %
% Toluene-d8 (50x)	100		%	50	04/27/20	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Acenaphthylene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benz(a)anthracene	0.33	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(a)pyrene	0.4	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(b)fluoranthene	0.4	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(ghi)perylene	0.29	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Benzo(k)fluoranthene	0.3	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Chrysene	0.4	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Dibenz(a,h)anthracene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluoranthene	0.7	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Fluorene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Indeno(1,2,3-cd)pyrene	0.3	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Naphthalene	ND	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Phenanthrene	0.4	0.28	mg/Kg	1	04/25/20	WB	SW8270D
Pyrene	0.67	0.28	mg/Kg	1	04/25/20	WB	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	04/25/20	WB	30 - 130 %
% Nitrobenzene-d5	63		%	1	04/25/20	WB	30 - 130 %
% Terphenyl-d14	83		%	1	04/25/20	WB	30 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

Analysis Report

May 09, 2020

FOR: Attn: Kristi Gagnon
TRC Environmental Corp.
21 Griffin Rd North
Windsor, CT 06095

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	KG	04/24/20	13:00
Location Code:	TRC-NONDAS	Received by:	SW	04/24/20	16:22
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	152374				

Laboratory Data

SDG ID: GCF79123
Phoenix ID: CF79141

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: TB20200424H

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	0.14	mg/Kg	50	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
2-Hexanone	ND	0.7	mg/Kg	50	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	1.3	mg/Kg	50	04/25/20	JLI	SW8260C

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: TB20200424H

Phoenix I.D.: CF79141

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5	mg/Kg	50	04/25/20	JLI	SW8260C
Acrylonitrile	ND	0.025	mg/Kg	50	04/25/20	JLI	SW8260C
Benzene	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Bromobenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Bromochloromethane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Bromoform	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Bromomethane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Chlorobenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Chloroethane	ND	0.15	mg/Kg	50	04/25/20	JLI	SW8260C
Chloroform	ND	0.12	mg/Kg	50	04/25/20	JLI	SW8260C
Chloromethane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
cis-1,2-Dichloroethene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Dibromomethane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Ethylbenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	0.2	mg/Kg	50	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
m&p-Xylene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	3	mg/Kg	50	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Methylene chloride	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Naphthalene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
o-Xylene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Styrene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Toluene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Total Xylenes	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	0.5	mg/Kg	50	04/25/20	JLI	SW8260C
Trichloroethene	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	0.25	mg/Kg	50	04/25/20	JLI	SW8260C
Vinyl chloride	ND	0.1	mg/Kg	50	04/25/20	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	96		%	50	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene (50x)	93		%	50	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane (50x)	88		%	50	04/25/20	JLI	70 - 130 %

Ver 2

Project ID: CONN DOT-RT 15 MERRITT PARKWAY
Client ID: TB20200424H

Phoenix I.D.: CF79141

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (50x)	90		%	50	04/25/20	JLI	70 - 130 %
Field Extraction	Completed				04/24/20		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
May 09, 2020
Reviewed and Released by: Rashmi Makol, Project Manager

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

QA/QC Report

May 09, 2020

QA/QC Data

SDG I.D.: GCF79123

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 527761 (mg/L), QC Sample No: CF78723 (CF79124)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	94.7			85.0			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 527774 (mg/kg), QC Sample No: CF78938 2X (CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	112	102	9.3	101	101	0.0	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 529021 (mg/L), QC Sample No: CF77609 (CF79125, CF79126, CF79128, CF79129, CF79130, CF79133, CF79134, CF79139)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.004	0.006	0.005	NC	103	103	0.0	110			80 - 120	20
Lead	BRL	0.010	0.297	0.249	17.6	98.9	98.4	0.5	97.7			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 527684 (mg/L), QC Sample No: CF78767 (CF79124)													
ICP Metals - Aqueous													
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.9	97.3	1.6	98.7			80 - 120	20
Barium	BRL	0.002	0.026	0.026	0	95.8	93.9	2.0	95.5			80 - 120	20
Cadmium	BRL	0.001	0.001	0.001	NC	100	98.9	1.1	99.4			80 - 120	20
Chromium	BRL	0.001	0.005	0.005	0	103	102	1.0	103			80 - 120	20
Lead	BRL	0.002	0.005	0.004	NC	95.3	93.3	2.1	94.1			80 - 120	20
Selenium	BRL	0.010	<0.010	<0.010	NC	93.4	92.6	0.9	93.2			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	102	99.8	2.2	101			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 527693 (mg/kg), QC Sample No: CF78938 (CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140)													
ICP Metals - Soil													
Arsenic	BRL	0.67	4.98	5.14	3.20	93.1	94.6	1.6	90.1			75 - 125	35
Barium	BRL	0.33	119	125	4.90	91.5	91.4	0.1	90.1			75 - 125	35
Cadmium	BRL	0.33	0.71	0.71	NC	96.1	96.9	0.8	94.5			75 - 125	35
Chromium	BRL	0.33	22.4	23.3	3.90	93.0	94.4	1.5	107			75 - 125	35
Lead	BRL	0.33	4.06	4.23	4.10	90.1	91.0	1.0	87.2			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.3	NC	90.1	91.9	2.0	87.7			75 - 125	35
Silver	BRL	0.33	<0.34	<0.33	NC	87.4	89.0	1.8	87.9			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

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

QA/QC Report

May 09, 2020

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 527688 (mg/Kg), QC Sample No: CF79132 (CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	114	102	11.1	114	83	31.5	60 - 120	30
% n-Pentacosane	53	%	81	75	7.7	84	63	28.6	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 527846 (mg/L), QC Sample No: CF79417 (CF79124)										
TPH by GC (Extractable Products) - Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	93	87	6.7	109	87	22.4	60 - 120	30
% n-Pentacosane	56	%	73	77	5.3	87	88	1.1	50 - 150	20
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 527816 (mg/Kg), QC Sample No: CF75433 2X (CF79136, CF79137, CF79138, CF79139, CF79140)										
Pesticides - Soil										
4,4' -DDD	ND	0.0017	70	70	0.0	57	55	3.6	40 - 140	30
4,4' -DDE	ND	0.0017	64	64	0.0	52	51	1.9	40 - 140	30
4,4' -DDT	ND	0.0017	71	72	1.4	60	58	3.4	40 - 140	30
a-BHC	ND	0.001	61	59	3.3	43	42	2.4	40 - 140	30
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30
Aldrin	ND	0.001	66	68	3.0	52	52	0.0	40 - 140	30
b-BHC	ND	0.001	78	81	3.8	59	64	8.1	40 - 140	30
Chlordane	ND	0.033	70	71	1.4	56	55	1.8	40 - 140	30
d-BHC	ND	0.0033	65	66	1.5	49	48	2.1	40 - 140	30
Dieldrin	ND	0.001	72	73	1.4	55	54	1.8	40 - 140	30
Endosulfan I	ND	0.0033	76	78	2.6	60	60	0.0	40 - 140	30
Endosulfan II	ND	0.0033	78	78	0.0	58	58	0.0	40 - 140	30
Endosulfan sulfate	ND	0.0033	75	75	0.0	55	56	1.8	40 - 140	30
Endrin	ND	0.0033	67	67	0.0	53	53	0.0	40 - 140	30
Endrin aldehyde	ND	0.0033	69	68	1.5	50	52	3.9	40 - 140	30
Endrin ketone	ND	0.0033	81	82	1.2	58	60	3.4	40 - 140	30
g-BHC	ND	0.001	66	68	3.0	49	49	0.0	40 - 140	30
Heptachlor	ND	0.0033	66	68	3.0	52	51	1.9	40 - 140	30
Heptachlor epoxide	ND	0.0033	71	72	1.4	58	56	3.5	40 - 140	30
Methoxychlor	ND	0.0033	74	75	1.3	60	61	1.7	40 - 140	30
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30
% DCBP	54	%	75	76	1.3	60	56	6.9	30 - 150	30
% DCBP (Confirmation)	75	%	90	87	3.4	76	68	11.1	30 - 150	30
% TCMX	48	%	60	62	3.3	50	45	10.5	30 - 150	30
% TCMX (Confirmation)	45	%	59	59	0.0	49	45	8.5	30 - 150	30

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 527833 (ug/L), QC Sample No: CF79124 (CF79124)											
Pesticides - Water											
4,4' -DDD	ND	0.003	113	112	0.9				40 - 140	20	
4,4' -DDE	ND	0.003	94	86	8.9				40 - 140	20	
4,4' -DDT	ND	0.003	98	91	7.4				40 - 140	20	
a-BHC	ND	0.002	78	81	3.8				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	85	86	1.2				40 - 140	20	
b-BHC	ND	0.002	112	97	14.4				40 - 140	20	
Chlordane	ND	0.050	98	96	2.1				40 - 140	20	
d-BHC	ND	0.005	42	43	2.4				40 - 140	20	
Dieldrin	ND	0.002	106	103	2.9				40 - 140	20	
Endosulfan I	ND	0.005	122	102	17.9				40 - 140	20	
Endosulfan II	ND	0.005	109	103	5.7				40 - 140	20	
Endosulfan sulfate	ND	0.005	103	95	8.1				40 - 140	20	
Endrin	ND	0.005	98	96	2.1				40 - 140	20	
Endrin aldehyde	ND	0.005	113	109	3.6				40 - 140	20	
Endrin ketone	ND	0.005	89	85	4.6				40 - 140	20	
g-BHC	ND	0.002	92	88	4.4				40 - 140	20	
Heptachlor	ND	0.005	89	87	2.3				40 - 140	20	
Heptachlor epoxide	ND	0.005	97	95	2.1				40 - 140	20	
Methoxychlor	ND	0.005	116	102	12.8				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	80	%	94	90	4.3				30 - 150	20	
% DCBP (Confirmation)	78	%	87	79	9.6				30 - 150	20	
% TCMX	63	%	82	81	1.2				30 - 150	20	
% TCMX (Confirmation)	56	%	68	63	7.6				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Batch 527921 (mg/Kg), QC Sample No: CF79129 2X (CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135)

Pesticides - Soil

4,4' -DDD	ND	0.0017	60	79	27.3	63	56	11.8	40 - 140	30	
4,4' -DDE	ND	0.0017	54	69	24.4	65	59	9.7	40 - 140	30	
4,4' -DDT	ND	0.0017	62	78	22.9	64	54	16.9	40 - 140	30	
a-BHC	ND	0.001	53	69	26.2	53	48	9.9	40 - 140	30	
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	0.001	62	75	19.0	59	51	14.5	40 - 140	30	
b-BHC	ND	0.001	69	89	25.3	62	43	36.2	40 - 140	30	r
Chlordane	ND	0.033	60	77	24.8	61	53	14.0	40 - 140	30	
d-BHC	ND	0.0033	56	73	26.4	53	40	28.0	40 - 140	30	
Dieldrin	ND	0.001	62	78	22.9	62	52	17.5	40 - 140	30	
Endosulfan I	ND	0.0033	66	86	26.3	61	54	12.2	40 - 140	30	
Endosulfan II	ND	0.0033	66	82	21.6	59	51	14.5	40 - 140	30	
Endosulfan sulfate	ND	0.0033	66	83	22.8	56	48	15.4	40 - 140	30	
Endrin	ND	0.0033	59	71	18.5	59	52	12.6	40 - 140	30	
Endrin aldehyde	ND	0.0033	60	76	23.5	51	45	12.5	40 - 140	30	
Endrin ketone	ND	0.0033	68	88	25.6	57	51	11.1	40 - 140	30	
g-BHC	ND	0.001	58	74	24.2	67	45	39.3	40 - 140	30	r
Heptachlor	ND	0.0033	59	73	21.2	68	52	26.7	40 - 140	30	
Heptachlor epoxide	ND	0.0033	59	74	22.6	58	51	12.8	40 - 140	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methoxychlor	ND	0.0033	64	79	21.0	71	69	2.9	40 - 140	30	
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	83	%	64	79	21.0	56	56	0.0	30 - 150	30	
% DCBP (Confirmation)	84	%	71	83	15.6	59	55	7.0	30 - 150	30	
% TCMX	64	%	48	65	30.1	49	45	8.5	30 - 150	30	
% TCMX (Confirmation)	62	%	50	68	30.5	53	48	9.9	30 - 150	30	
QA/QC Batch 528085 (mg/Kg), QC Sample No: CF80740 2X (CF79125)											
Pesticides - Soil											
4,4' -DDD	ND	0.0017	77	88	13.3	70	59	17.1	40 - 140	30	
4,4' -DDE	ND	0.0017	67	75	11.3	59	50	16.5	40 - 140	30	
4,4' -DDT	ND	0.0017	78	82	5.0	67	56	17.9	40 - 140	30	
a-BHC	ND	0.001	68	71	4.3	58	46	23.1	40 - 140	30	
Alachlor	ND	0.0033	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	0.001	79	78	1.3	64	56	13.3	40 - 140	30	
b-BHC	ND	0.001	88	92	4.4	87	65	28.9	40 - 140	30	
Chlordane	ND	0.033	78	82	5.0	68	59	14.2	40 - 140	30	
d-BHC	ND	0.0033	72	79	9.3	63	54	15.4	40 - 140	30	
Dieldrin	ND	0.001	80	86	7.2	69	60	14.0	40 - 140	30	
Endosulfan I	ND	0.0033	87	94	7.7	78	67	15.2	40 - 140	30	
Endosulfan II	ND	0.0033	85	93	9.0	75	63	17.4	40 - 140	30	
Endosulfan sulfate	ND	0.0033	84	94	11.2	75	66	12.8	40 - 140	30	
Endrin	ND	0.0033	73	76	4.0	63	53	17.2	40 - 140	30	
Endrin aldehyde	ND	0.0033	76	87	13.5	68	59	14.2	40 - 140	30	
Endrin ketone	ND	0.0033	88	100	12.8	79	69	13.5	40 - 140	30	
g-BHC	ND	0.001	76	77	1.3	63	54	15.4	40 - 140	30	
Heptachlor	ND	0.0033	75	75	0.0	62	53	15.7	40 - 140	30	
Heptachlor epoxide	ND	0.0033	75	80	6.5	67	56	17.9	40 - 140	30	
Methoxychlor	ND	0.0033	80	86	7.2	69	59	15.6	40 - 140	30	
Toxaphene	ND	0.13	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	89	%	84	89	5.8	75	66	12.8	30 - 150	30	
% DCBP (Confirmation)	89	%	85	84	1.2	69	63	9.1	30 - 150	30	
% TCMX	73	%	67	69	2.9	56	48	15.4	30 - 150	30	
% TCMX (Confirmation)	72	%	68	65	4.5	54	49	9.7	30 - 150	30	
QA/QC Batch 527686 (mg/Kg), QC Sample No: CF79131 (CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	0.23	65	67	3.0	58	54	7.1	40 - 140	30	
Acenaphthene	ND	0.23	68	68	0.0	57	54	5.4	30 - 130	30	
Acenaphthylene	ND	0.23	66	67	1.5	58	55	5.3	40 - 140	30	
Anthracene	ND	0.23	71	68	4.3	62	54	13.8	40 - 140	30	
Benz(a)anthracene	ND	0.23	72	70	2.8	68	51	28.6	40 - 140	30	
Benzo(a)pyrene	ND	0.23	76	73	4.0	65	48	30.1	40 - 140	30	
Benzo(b)fluoranthene	ND	0.23	92	90	2.2	87	63	32.0	40 - 140	30	r
Benzo(ghi)perylene	ND	0.23	60	64	6.5	49	38	25.3	40 - 140	30	m
Benzo(k)fluoranthene	ND	0.23	60	56	6.9	52	38	31.1	40 - 140	30	m,r
Chrysene	ND	0.23	72	69	4.3	68	49	32.5	40 - 140	30	r
Dibenz(a,h)anthracene	ND	0.23	65	69	6.0	55	46	17.8	40 - 140	30	
Fluoranthene	ND	0.23	69	67	2.9	83	49	51.5	40 - 140	30	r
Fluorene	ND	0.23	73	71	2.8	61	57	6.8	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	0.23	60	63	4.9	52	39	28.6	40 - 140	30	m
Naphthalene	ND	0.23	62	65	4.7	55	52	5.6	40 - 140	30	
Phenanthrene	ND	0.23	70	68	2.9	73	54	29.9	40 - 140	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Pyrene	ND	0.23	73	69	5.6	82	49	50.4	30 - 130	30	r
% 2-Fluorobiphenyl	63	%	62	63	1.6	53	50	5.8	30 - 130	30	
% Nitrobenzene-d5	58	%	55	58	5.3	48	44	8.7	30 - 130	30	
% Terphenyl-d14	77	%	78	74	5.3	65	58	11.4	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527964 (ug/L), QC Sample No: CF80195 (CF79124)

Semivolatiles by SIM, PAH - Water

2-Methylnaphthalene	ND	0.50	62	62	0.0	58	65	11.4	30 - 130	20	
Acenaphthene	ND	0.50	66	67	1.5	66	70	5.9	30 - 130	20	
Acenaphthylene	ND	0.10	62	63	1.6	63	67	6.2	30 - 130	20	
Anthracene	ND	0.10	65	67	3.0	67	69	2.9	30 - 130	20	
Benz(a)anthracene	ND	0.05	65	68	4.5	72	73	1.4	30 - 130	20	
Benzo(a)pyrene	ND	0.20	60	66	9.5	65	67	3.0	30 - 130	20	
Benzo(b)fluoranthene	ND	0.07	75	80	6.5	77	80	3.8	30 - 130	20	
Benzo(ghi)perylene	ND	0.02	63	69	9.1	65	66	1.5	30 - 130	20	
Benzo(k)fluoranthene	ND	0.10	53	57	7.3	54	55	1.8	30 - 130	20	
Chrysene	ND	0.05	67	71	5.8	72	74	2.7	30 - 130	20	
Dibenz(a,h)anthracene	ND	0.02	63	70	10.5	66	68	3.0	30 - 130	20	
Fluoranthene	ND	0.50	65	67	3.0	67	71	5.8	30 - 130	20	
Fluorene	ND	0.10	65	66	1.5	66	70	5.9	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.10	57	64	11.6	63	65	3.1	30 - 130	20	
Naphthalene	ND	0.50	62	58	6.7	53	61	14.0	30 - 130	20	
Phenanthrene	ND	0.06	67	69	2.9	68	72	5.7	30 - 130	20	
Pyrene	ND	0.07	67	69	2.9	70	73	4.2	30 - 130	20	
% 2-Fluorobiphenyl	64	%	59	58	1.7	58	60	3.4	30 - 130	20	
% Nitrobenzene-d5	84	%	80	77	3.8	74	85	13.8	30 - 130	20	
% Terphenyl-d14	60	%	56	60	6.9	59	58	1.7	30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 527925H (mg/Kg), QC Sample No: CF78464 50X (CF79140 (50X))

Volatiles - Soil (High Level)

1,2,3-Trichlorobenzene	ND	0.25	102	97	5.0	90	94	4.3	70 - 130	30	
1,2,3-Trichloropropane	ND	0.25	92	88	4.4	80	86	7.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.25	107	104	2.8	92	96	4.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.25	98	96	2.1	87	93	6.7	70 - 130	30	
1,2-Dichlorobenzene	ND	0.25	96	94	2.1	85	90	5.7	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.25	97	96	1.0	87	93	6.7	70 - 130	30	
1,3-Dichlorobenzene	ND	0.25	97	96	1.0	86	92	6.7	70 - 130	30	
1,4-Dichlorobenzene	ND	0.25	98	96	2.1	85	91	6.8	70 - 130	30	
2-Chlorotoluene	ND	0.25	95	94	1.1	84	91	8.0	70 - 130	30	
2-Isopropyltoluene	ND	0.25	105	104	1.0	95	102	7.1	70 - 130	30	
4-Chlorotoluene	ND	0.25	96	95	1.0	85	91	6.8	70 - 130	30	
Bromobenzene	ND	0.25	96	93	3.2	85	91	6.8	70 - 130	30	
Hexachlorobutadiene	ND	0.25	102	100	2.0	92	97	5.3	70 - 130	30	
Isopropylbenzene	ND	0.25	94	93	1.1	85	91	6.8	70 - 130	30	
Naphthalene	ND	0.25	98	93	5.2	89	92	3.3	70 - 130	30	
n-Butylbenzene	ND	0.25	106	103	2.9	92	99	7.3	70 - 130	30	
n-Propylbenzene	ND	0.25	96	95	1.0	86	92	6.7	70 - 130	30	
p-Isopropyltoluene	ND	0.25	101	100	1.0	90	97	7.5	70 - 130	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
sec-Butylbenzene	ND	0.25	104	102	1.9	93	99	6.3	70 - 130	30	
tert-Butylbenzene	ND	0.25	94	93	1.1	85	92	7.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.25	125	117	6.6	96	105	9.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	100	101	1.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	99	100	1.0	99	101	2.0	70 - 130	30	
% Dibromofluoromethane	103	%	104	105	1.0	104	103	1.0	70 - 130	30	
% Toluene-d8	99	%	100	100	0.0	100	100	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 527807 (mg/Kg), QC Sample No: CF78688 (CF79139, CF79140)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	107	107	0.0	112			70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	102	101	1.0	109			70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	101	105	3.9	123			70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	98	97	1.0	98			70 - 130	30	
1,1-Dichloroethane	ND	0.005	102	102	0.0	105			70 - 130	30	
1,1-Dichloroethene	ND	0.005	102	101	1.0	109			70 - 130	30	
1,1-Dichloropropene	ND	0.005	99	96	3.1	99			70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	94	97	3.1	52			70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005	96	98	2.1	128			70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	97	97	0.0	57			70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001	99	99	0.0	85			70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	112	112	0.0	115			70 - 130	30	
1,2-Dibromoethane	ND	0.005	100	102	2.0	108			70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	97	98	1.0	81			70 - 130	30	
1,2-Dichloroethane	ND	0.005	101	102	1.0	108			70 - 130	30	
1,2-Dichloropropane	ND	0.005	97	98	1.0	102			70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	101	101	0.0	100			70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	98	98	0.0	93			70 - 130	30	
1,3-Dichloropropane	ND	0.005	101	100	1.0	109			70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	94	94	0.0	88			70 - 130	30	
2,2-Dichloropropane	ND	0.005	108	102	5.7	112			70 - 130	30	
2-Chlorotoluene	ND	0.005	98	98	0.0	98			70 - 130	30	
2-Hexanone	ND	0.025	110	110	0.0	112			70 - 130	30	
2-Isopropyltoluene	ND	0.005	102	101	1.0	96			70 - 130	30	
4-Chlorotoluene	ND	0.005	95	96	1.0	99			70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	111	114	2.7	114			70 - 130	30	
Acetone	ND	0.01	93	94	1.1	75			70 - 130	30	
Acrylonitrile	ND	0.005	101	103	2.0	103			70 - 130	30	
Benzene	ND	0.001	102	100	2.0	102			70 - 130	30	
Bromobenzene	ND	0.005	98	99	1.0	109			70 - 130	30	
Bromochloromethane	ND	0.005	99	101	2.0	105			70 - 130	30	
Bromodichloromethane	ND	0.005	108	107	0.9	110			70 - 130	30	
Bromoform	ND	0.005	111	113	1.8	107			70 - 130	30	
Bromomethane	ND	0.005	115	116	0.9	131			70 - 130	30	m
Carbon Disulfide	ND	0.005	104	103	1.0	103			70 - 130	30	
Carbon tetrachloride	ND	0.005	111	95	15.5	98			70 - 130	30	
Chlorobenzene	ND	0.005	100	99	1.0	99			70 - 130	30	
Chloroethane	ND	0.005	104	101	2.9	112			70 - 130	30	
Chloroform	ND	0.005	101	100	1.0	105			70 - 130	30	
Chloromethane	ND	0.005	96	97	1.0	98			70 - 130	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,2-Dichloroethene	ND	0.005	98	98	0.0	100			70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	103	104	1.0	100			70 - 130	30	
Dibromochloromethane	ND	0.003	111	113	1.8	116			70 - 130	30	
Dibromomethane	ND	0.005	99	100	1.0	102			70 - 130	30	
Dichlorodifluoromethane	ND	0.005	101	100	1.0	106			70 - 130	30	
Ethylbenzene	ND	0.001	102	101	1.0	99			70 - 130	30	
Hexachlorobutadiene	ND	0.005	100	98	2.0	59			70 - 130	30	m
Isopropylbenzene	ND	0.001	99	100	1.0	109			70 - 130	30	
m&p-Xylene	ND	0.002	100	99	1.0	92			70 - 130	30	
Methyl ethyl ketone	ND	0.005	95	105	10.0	105			70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	98	100	2.0	107			70 - 130	30	
Methylene chloride	ND	0.005	95	94	1.1	100			70 - 130	30	
Naphthalene	ND	0.005	102	104	1.9	31			70 - 130	30	m
n-Butylbenzene	ND	0.001	100	99	1.0	83			70 - 130	30	
n-Propylbenzene	ND	0.001	99	99	0.0	105			70 - 130	30	
o-Xylene	ND	0.002	102	102	0.0	94			70 - 130	30	
p-Isopropyltoluene	ND	0.001	101	102	1.0	96			70 - 130	30	
sec-Butylbenzene	ND	0.001	106	106	0.0	101			70 - 130	30	
Styrene	ND	0.005	100	103	3.0	86			70 - 130	30	
tert-Butylbenzene	ND	0.001	100	100	0.0	105			70 - 130	30	
Tetrachloroethene	ND	0.005	97	94	3.1	93			70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	98	99	1.0	100			70 - 130	30	
Toluene	ND	0.001	100	101	1.0	97			70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	102	100	2.0	106			70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	107	106	0.9	100			70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	114	116	1.7	126			70 - 130	30	
Trichloroethene	ND	0.005	97	97	0.0	99			70 - 130	30	
Trichlorofluoromethane	ND	0.005	110	106	3.7	119			70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	105	102	2.9	109			70 - 130	30	
Vinyl chloride	ND	0.005	108	106	1.9	110			70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	99			70 - 130	30	
% Bromofluorobenzene	97	%	102	102	0.0	95			70 - 130	30	
% Dibromofluoromethane	101	%	104	102	1.9	100			70 - 130	30	
% Toluene-d8	99	%	100	100	0.0	97			70 - 130	30	

Comment:

The MSD is not reported for this LL soil batch.

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

QA/QC Batch 527920 (ug/L), QC Sample No: CF79107 (CF79124)

Volatiles - Water

1,1,1,2-Tetrachloroethane	ND	1.0	88	89	1.1				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	95	94	1.1				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	90	98	8.5				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	91	96	5.3				70 - 130	30	
1,1-Dichloroethane	ND	1.0	102	100	2.0				70 - 130	30	
1,1-Dichloroethene	ND	1.0	95	94	1.1				70 - 130	30	
1,1-Dichloropropene	ND	1.0	95	91	4.3				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	103	115	11.0				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	87	94	7.7				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	101	109	7.6				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	93	91	2.2				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	90	98	8.5				70 - 130	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dibromoethane	ND	1.0	89	95	6.5				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	96	97	1.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	88	97	9.7				70 - 130	30
1,2-Dichloropropane	ND	1.0	98	96	2.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	93	92	1.1				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	94	94	0.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	91	94	3.2				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	96	95	1.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	101	99	2.0				70 - 130	30
2-Chlorotoluene	ND	1.0	92	92	0.0				70 - 130	30
2-Hexanone	ND	5.0	90	100	10.5				70 - 130	30
2-Isopropyltoluene	ND	1.0	97	94	3.1				70 - 130	30
4-Chlorotoluene	ND	1.0	90	90	0.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	97	103	6.0				70 - 130	30
Acetone	ND	5.0	96	105	9.0				70 - 130	30
Acrylonitrile	ND	5.0	95	105	10.0				70 - 130	30
Benzene	ND	0.70	96	91	5.3				70 - 130	30
Bromobenzene	ND	1.0	94	95	1.1				70 - 130	30
Bromochloromethane	ND	1.0	104	106	1.9				70 - 130	30
Bromodichloromethane	ND	0.50	92	93	1.1				70 - 130	30
Bromoform	ND	1.0	75	82	8.9				70 - 130	30
Bromomethane	ND	1.0	130	136	4.5				70 - 130	30
Carbon Disulfide	ND	1.0	92	88	4.4				70 - 130	30
Carbon tetrachloride	ND	1.0	92	93	1.1				70 - 130	30
Chlorobenzene	ND	1.0	97	95	2.1				70 - 130	30
Chloroethane	ND	1.0	96	93	3.2				70 - 130	30
Chloroform	ND	1.0	103	104	1.0				70 - 130	30
Chloromethane	ND	1.0	107	105	1.9				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	107	106	0.9				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	91	92	1.1				70 - 130	30
Dibromochloromethane	ND	0.50	83	88	5.8				70 - 130	30
Dibromomethane	ND	1.0	93	96	3.2				70 - 130	30
Dichlorodifluoromethane	ND	1.0	100	101	1.0				70 - 130	30
Ethylbenzene	ND	1.0	97	93	4.2				70 - 130	30
Hexachlorobutadiene	ND	0.40	100	97	3.0				70 - 130	30
Isopropylbenzene	ND	1.0	90	87	3.4				70 - 130	30
m&p-Xylene	ND	1.0	95	92	3.2				70 - 130	30
Methyl ethyl ketone	ND	5.0	102	106	3.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	89	97	8.6				70 - 130	30
Methylene chloride	ND	1.0	95	95	0.0				70 - 130	30
Naphthalene	ND	1.0	102	113	10.2				70 - 130	30
n-Butylbenzene	ND	1.0	97	92	5.3				70 - 130	30
n-Propylbenzene	ND	1.0	90	90	0.0				70 - 130	30
o-Xylene	ND	1.0	94	95	1.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	94	91	3.2				70 - 130	30
sec-Butylbenzene	ND	1.0	94	91	3.2				70 - 130	30
Styrene	ND	1.0	97	96	1.0				70 - 130	30
tert-Butylbenzene	ND	1.0	89	87	2.3				70 - 130	30
Tetrachloroethene	ND	1.0	91	88	3.4				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	102	116	12.8				70 - 130	30
Toluene	ND	1.0	99	96	3.1				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	100	96	4.1				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	88	92	4.4				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	83	93	11.4				70 - 130	30	
Trichloroethene	ND	1.0	90	89	1.1				70 - 130	30	
Trichlorofluoromethane	ND	1.0	96	97	1.0				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	95	95	0.0				70 - 130	30	
Vinyl chloride	ND	1.0	107	106	0.9				70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	99	101	2.0				70 - 130	30	
% Bromofluorobenzene	98	%	95	99	4.1				70 - 130	30	
% Dibromofluoromethane	108	%	107	109	1.9				70 - 130	30	
% Toluene-d8	93	%	101	100	1.0				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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

QA/QC Batch 527906 (mg/Kg), QC Sample No: CF79126 (CF79126)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	122	125	2.4				70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	112	118	5.2				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	129	127	1.6				70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	95	99	4.1				70 - 130	30	
1,1-Dichloroethane	ND	0.005	105	110	4.7				70 - 130	30	
1,1-Dichloroethene	ND	0.005	116	126	8.3				70 - 130	30	
1,1-Dichloropropene	ND	0.005	103	107	3.8				70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	101	101	0.0				70 - 130	30	
1,2,3-Trichloropropane	ND	0.005	114	124	8.4				70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	96	99	3.1				70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.001	93	98	5.2				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	121	123	1.6				70 - 130	30	
1,2-Dibromoethane	ND	0.005	113	119	5.2				70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	107	111	3.7				70 - 130	30	
1,2-Dichloroethane	ND	0.005	92	96	4.3				70 - 130	30	
1,2-Dichloropropane	ND	0.005	98	103	5.0				70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	102	104	1.9				70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	107	111	3.7				70 - 130	30	
1,3-Dichloropropane	ND	0.005	112	116	3.5				70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	105	109	3.7				70 - 130	30	
2,2-Dichloropropane	ND	0.005	111	119	7.0				70 - 130	30	
2-Chlorotoluene	ND	0.005	111	113	1.8				70 - 130	30	
2-Hexanone	ND	0.025	89	91	2.2				70 - 130	30	
2-Isopropyltoluene	ND	0.005	93	97	4.2				70 - 130	30	
4-Chlorotoluene	ND	0.005	104	109	4.7				70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	81	84	3.6				70 - 130	30	
Acetone	ND	0.01	68	74	8.5				70 - 130	30	I
Acrylonitrile	ND	0.005	95	109	13.7				70 - 130	30	
Benzene	ND	0.001	103	107	3.8				70 - 130	30	
Bromobenzene	ND	0.005	114	117	2.6				70 - 130	30	
Bromochloromethane	ND	0.005	106	113	6.4				70 - 130	30	
Bromodichloromethane	ND	0.005	105	108	2.8				70 - 130	30	
Bromoform	ND	0.005	128	130	1.6				70 - 130	30	
Bromomethane	ND	0.005	135	145	7.1				70 - 130	30	I
Carbon Disulfide	ND	0.005	111	120	7.8				70 - 130	30	
Carbon tetrachloride	ND	0.005	137	147	7.0				70 - 130	30	I
Chlorobenzene	ND	0.005	104	108	3.8				70 - 130	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chloroethane	ND	0.005	117	116	0.9				70 - 130	30	
Chloroform	ND	0.005	103	109	5.7				70 - 130	30	
Chloromethane	ND	0.005	129	139	7.5				70 - 130	30	I
cis-1,2-Dichloroethene	ND	0.005	105	112	6.5				70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	102	106	3.8				70 - 130	30	
Dibromochloromethane	ND	0.003	133	135	1.5				70 - 130	30	I
Dibromomethane	ND	0.005	96	101	5.1				70 - 130	30	
Dichlorodifluoromethane	ND	0.005	177	190	7.1				70 - 130	30	I
Ethylbenzene	ND	0.001	100	104	3.9				70 - 130	30	
Hexachlorobutadiene	ND	0.005	107	113	5.5				70 - 130	30	
Isopropylbenzene	ND	0.001	111	111	0.0				70 - 130	30	
m&p-Xylene	ND	0.002	93	99	6.3				70 - 130	30	
Methyl ethyl ketone	ND	0.005	86	97	12.0				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	91	96	5.3				70 - 130	30	
Methylene chloride	ND	0.005	97	107	9.8				70 - 130	30	
Naphthalene	ND	0.005	107	107	0.0				70 - 130	30	
n-Butylbenzene	ND	0.001	95	102	7.1				70 - 130	30	
n-Propylbenzene	ND	0.001	106	110	3.7				70 - 130	30	
o-Xylene	ND	0.002	95	102	7.1				70 - 130	30	
p-Isopropyltoluene	ND	0.001	97	102	5.0				70 - 130	30	
sec-Butylbenzene	ND	0.001	104	106	1.9				70 - 130	30	
Styrene	ND	0.005	93	100	7.3				70 - 130	30	
tert-Butylbenzene	ND	0.001	103	103	0.0				70 - 130	30	
Tetrachloroethene	ND	0.005	99	105	5.9				70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	92	97	5.3				70 - 130	30	
Toluene	ND	0.001	92	96	4.3				70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	118	106	10.7				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	99	105	5.9				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	129	124	4.0				70 - 130	30	
Trichloroethene	ND	0.005	104	109	4.7				70 - 130	30	
Trichlorofluoromethane	ND	0.005	125	132	5.4				70 - 130	30	I
Trichlorotrifluoroethane	ND	0.005	115	123	6.7				70 - 130	30	
Vinyl chloride	ND	0.005	137	144	5.0				70 - 130	30	I
% 1,2-dichlorobenzene-d4	102	%	103	104	1.0				70 - 130	30	
% Bromofluorobenzene	70	%	87	90	3.4				70 - 130	30	
% Dibromofluoromethane	101	%	101	104	2.9				70 - 130	30	
% Toluene-d8	80	%	85	86	1.2				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 527906H (mg/Kg), QC Sample No: CF79126 50X (CF79129 (50X) , CF79130 (50X) , CF79131 (50X))

Volatiles - Soil (High Level)

1,2,3-Trichlorobenzene	ND	0.25	107	109	1.9	48	51	6.1	70 - 130	30	m
1,2,3-Trichloropropane	ND	0.25	107	127	17.1	136	146	7.1	70 - 130	30	m
1,2,4-Trichlorobenzene	ND	0.25	103	105	1.9	47	52	10.1	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.25	96	98	2.1	67	69	2.9	70 - 130	30	m
1,2-Dichlorobenzene	ND	0.25	111	113	1.8	101	109	7.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.25	100	102	2.0	77	80	3.8	70 - 130	30	
1,3-Dichlorobenzene	ND	0.25	108	111	2.7	99	107	7.8	70 - 130	30	
1,4-Dichlorobenzene	ND	0.25	106	109	2.8	97	104	7.0	70 - 130	30	
2-Chlorotoluene	ND	0.25	106	108	1.9	106	113	6.4	70 - 130	30	
2-Isopropyltoluene	ND	0.25	95	96	1.0	83	87	4.7	70 - 130	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorotoluene	ND	0.25	105	105	0.0	99	107	7.8	70 - 130	30	
Bromobenzene	ND	0.25	113	115	1.8	116	124	6.7	70 - 130	30	
Hexachlorobutadiene	ND	0.25	116	116	0.0	90	100	10.5	70 - 130	30	
Isopropylbenzene	ND	0.25	104	105	1.0	108	118	8.8	70 - 130	30	
Naphthalene	ND	0.25	108	110	1.8	50	58	14.8	70 - 130	30	m
n-Butylbenzene	ND	0.25	99	101	2.0	76	82	7.6	70 - 130	30	
n-Propylbenzene	ND	0.25	102	104	1.9	100	108	7.7	70 - 130	30	
p-Isopropyltoluene	ND	0.25	98	100	2.0	82	87	5.9	70 - 130	30	
sec-Butylbenzene	ND	0.25	101	103	2.0	97	104	7.0	70 - 130	30	
tert-Butylbenzene	ND	0.25	97	98	1.0	97	104	7.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.25	125	120	4.1	112	123	9.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	106	106	0.0	106	105	0.9	70 - 130	30	
% Bromofluorobenzene	85	%	89	91	2.2	84	84	0.0	70 - 130	30	
% Dibromofluoromethane	106	%	103	103	0.0	99	98	1.0	70 - 130	30	
% Toluene-d8	79	%	86	87	1.2	85	84	1.2	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 527792 (mg/Kg), QC Sample No: CF79179 (CF79123, CF79125, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138)

Volatiles - Soil (Low Level)

1,1,1,2-Tetrachloroethane	ND	0.005	105	97	7.9	98	97	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	0.005	97	90	7.5	94	93	1.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.003	105	93	12.1	107	103	3.8	70 - 130	30	
1,1,2-Trichloroethane	ND	0.005	98	90	8.5	86	85	1.2	70 - 130	30	
1,1-Dichloroethane	ND	0.005	94	88	6.6	89	89	0.0	70 - 130	30	
1,1-Dichloroethene	ND	0.005	104	94	10.1	98	97	1.0	70 - 130	30	
1,1-Dichloropropene	ND	0.005	96	91	5.3	91	93	2.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.005	102	95	7.1	56	54	3.6	70 - 130	30	m
1,2,3-Trichloropropane	ND	0.005	92	86	6.7	98	94	4.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.005	101	93	8.2	60	59	1.7	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	0.001	102	96	6.1	100	98	2.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.005	116	101	13.8	99	97	2.0	70 - 130	30	
1,2-Dibromoethane	ND	0.005	102	93	9.2	93	91	2.2	70 - 130	30	
1,2-Dichlorobenzene	ND	0.005	103	94	9.1	88	87	1.1	70 - 130	30	
1,2-Dichloroethane	ND	0.005	97	89	8.6	88	88	0.0	70 - 130	30	
1,2-Dichloropropane	ND	0.005	99	91	8.4	92	90	2.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.001	101	96	5.1	104	103	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	0.005	101	93	8.2	89	88	1.1	70 - 130	30	
1,3-Dichloropropane	ND	0.005	100	91	9.4	93	92	1.1	70 - 130	30	
1,4-Dichlorobenzene	ND	0.005	102	94	8.2	87	87	0.0	70 - 130	30	
2,2-Dichloropropane	ND	0.005	98	92	6.3	90	90	0.0	70 - 130	30	
2-Chlorotoluene	ND	0.005	103	97	6.0	103	103	0.0	70 - 130	30	
2-Hexanone	ND	0.025	98	84	15.4	81	78	3.8	70 - 130	30	
2-Isopropyltoluene	ND	0.005	106	100	5.8	107	106	0.9	70 - 130	30	
4-Chlorotoluene	ND	0.005	101	93	8.2	96	95	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	0.025	102	87	15.9	88	85	3.5	70 - 130	30	
Acetone	ND	0.01	79	68	15.0	25	24	4.1	70 - 130	30	l,m
Acrylonitrile	ND	0.005	97	83	15.6	86	81	6.0	70 - 130	30	
Benzene	ND	0.001	100	93	7.3	93	94	1.1	70 - 130	30	
Bromobenzene	ND	0.005	105	97	7.9	101	100	1.0	70 - 130	30	
Bromochloromethane	ND	0.005	98	91	7.4	91	91	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromodichloromethane	ND	0.005	102	95	7.1	92	93	1.1	70 - 130	30	
Bromoform	ND	0.005	106	93	13.1	87	87	0.0	70 - 130	30	
Bromomethane	ND	0.005	113	110	2.7	106	103	2.9	70 - 130	30	
Carbon Disulfide	ND	0.005	98	88	10.8	86	86	0.0	70 - 130	30	
Carbon tetrachloride	ND	0.005	99	90	9.5	94	93	1.1	70 - 130	30	
Chlorobenzene	ND	0.005	102	94	8.2	93	92	1.1	70 - 130	30	
Chloroethane	ND	0.005	96	90	6.5	91	90	1.1	70 - 130	30	
Chloroform	ND	0.005	93	87	6.7	88	88	0.0	70 - 130	30	
Chloromethane	ND	0.005	100	94	6.2	89	88	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.005	92	89	3.3	88	90	2.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.005	102	94	8.2	87	87	0.0	70 - 130	30	
Dibromochloromethane	ND	0.003	108	99	8.7	98	96	2.1	70 - 130	30	
Dibromomethane	ND	0.005	100	92	8.3	91	89	2.2	70 - 130	30	
Dichlorodifluoromethane	ND	0.005	111	106	4.6	93	96	3.2	70 - 130	30	
Ethylbenzene	ND	0.001	102	96	6.1	98	99	1.0	70 - 130	30	
Hexachlorobutadiene	ND	0.005	104	97	7.0	75	77	2.6	70 - 130	30	
Isopropylbenzene	ND	0.001	103	98	5.0	112	110	1.8	70 - 130	30	
m&p-Xylene	ND	0.002	100	94	6.2	94	94	0.0	70 - 130	30	
Methyl ethyl ketone	ND	0.005	91	78	15.4	78	71	9.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.001	77	84	8.7	81	73	10.4	70 - 130	30	
Methylene chloride	ND	0.005	97	87	10.9	86	85	1.2	70 - 130	30	
Naphthalene	ND	0.005	107	97	9.8	60	57	5.1	70 - 130	30	m
n-Butylbenzene	ND	0.001	107	100	6.8	97	97	0.0	70 - 130	30	
n-Propylbenzene	ND	0.001	104	98	5.9	109	107	1.9	70 - 130	30	
o-Xylene	ND	0.002	104	97	7.0	96	96	0.0	70 - 130	30	
p-Isopropyltoluene	ND	0.001	105	99	5.9	104	104	0.0	70 - 130	30	
sec-Butylbenzene	ND	0.001	109	103	5.7	110	110	0.0	70 - 130	30	
Styrene	ND	0.005	103	96	7.0	86	86	0.0	70 - 130	30	
tert-Butylbenzene	ND	0.001	102	96	6.1	107	107	0.0	70 - 130	30	
Tetrachloroethene	ND	0.005	100	94	6.2	92	94	2.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.005	94	81	14.9	86	81	6.0	70 - 130	30	
Toluene	ND	0.001	102	96	6.1	94	95	1.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.005	84	88	4.7	77	78	1.3	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.005	103	94	9.1	85	86	1.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.005	122	107	13.1	105	101	3.9	70 - 130	30	
Trichloroethene	ND	0.005	99	93	6.3	91	92	1.1	70 - 130	30	
Trichlorofluoromethane	ND	0.005	105	97	7.9	101	102	1.0	70 - 130	30	
Trichlorotrifluoroethane	ND	0.005	107	98	8.8	102	102	0.0	70 - 130	30	
Vinyl chloride	ND	0.005	109	102	6.6	98	98	0.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	%	101	102	1.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	93	%	96	95	1.0	89	90	1.1	70 - 130	30	
% Dibromofluoromethane	94	%	90	91	1.1	91	89	2.2	70 - 130	30	
% Toluene-d8	89	%	98	97	1.0	95	95	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 527792H (mg/Kg), QC Sample No: CF79179 50X (CF79141 (50X))

Volatiles - Soil (High Level)

1,1,1,2-Tetrachloroethane	ND	0.25	95	93	2.1	92	94	2.2	70 - 130	30	
1,1,1-Trichloroethane	ND	0.25	90	88	2.2	88	89	1.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.25	94	98	4.2	93	94	1.1	70 - 130	30	
1,1,2-Trichloroethane	ND	0.25	91	92	1.1	90	90	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloroethane	ND	0.25	88	87	1.1	86	87	1.2	70 - 130	30	
1,1-Dichloroethene	ND	0.25	88	89	1.1	89	90	1.1	70 - 130	30	
1,1-Dichloropropene	ND	0.25	93	90	3.3	91	92	1.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	0.25	107	111	3.7	95	102	7.1	70 - 130	30	
1,2,3-Trichloropropane	ND	0.25	85	88	3.5	85	85	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	0.25	107	110	2.8	93	100	7.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	0.25	99	98	1.0	94	98	4.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	0.25	97	102	5.0	95	95	0.0	70 - 130	30	
1,2-Dibromoethane	ND	0.25	92	93	1.1	93	92	1.1	70 - 130	30	
1,2-Dichlorobenzene	ND	0.25	99	99	0.0	95	97	2.1	70 - 130	30	
1,2-Dichloroethane	ND	0.25	90	90	0.0	91	90	1.1	70 - 130	30	
1,2-Dichloropropane	ND	0.25	94	94	0.0	92	93	1.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	0.25	98	97	1.0	94	96	2.1	70 - 130	30	
1,3-Dichlorobenzene	ND	0.25	98	97	1.0	93	96	3.2	70 - 130	30	
1,3-Dichloropropane	ND	0.25	91	91	0.0	90	92	2.2	70 - 130	30	
1,4-Dichlorobenzene	ND	0.25	98	98	0.0	93	95	2.1	70 - 130	30	
2,2-Dichloropropane	ND	0.25	91	88	3.4	82	85	3.6	70 - 130	30	
2-Chlorotoluene	ND	0.25	99	99	0.0	95	97	2.1	70 - 130	30	
2-Hexanone	ND	1.3	80	84	4.9	82	82	0.0	70 - 130	30	
2-Isopropyltoluene	ND	0.25	103	101	2.0	98	101	3.0	70 - 130	30	
4-Chlorotoluene	ND	0.25	97	96	1.0	92	94	2.2	70 - 130	30	
4-Methyl-2-pentanone	ND	1.3	85	90	5.7	90	86	4.5	70 - 130	30	
Acetone	ND	0.5	36	40	10.5	44	45	2.2	70 - 130	30	l,m
Acrylonitrile	ND	0.25	91	97	6.4	97	94	3.1	70 - 130	30	
Benzene	ND	0.25	96	95	1.0	94	95	1.1	70 - 130	30	
Bromobenzene	ND	0.25	99	97	2.0	96	97	1.0	70 - 130	30	
Bromochloromethane	ND	0.25	91	92	1.1	89	92	3.3	70 - 130	30	
Bromodichloromethane	ND	0.25	95	92	3.2	91	92	1.1	70 - 130	30	
Bromoform	ND	0.25	89	87	2.3	84	86	2.4	70 - 130	30	
Bromomethane	ND	0.25	75	70	6.9	68	74	8.5	70 - 130	30	m
Carbon Disulfide	ND	0.25	84	83	1.2	81	83	2.4	70 - 130	30	
Carbon tetrachloride	ND	0.25	90	86	4.5	84	87	3.5	70 - 130	30	
Chlorobenzene	ND	0.25	96	96	0.0	94	97	3.1	70 - 130	30	
Chloroethane	ND	0.25	33	31	6.3	32	33	3.1	70 - 130	30	l,m
Chloroform	ND	0.25	87	87	0.0	87	88	1.1	70 - 130	30	
Chloromethane	ND	0.25	97	94	3.1	97	98	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	0.25	89	91	2.2	88	88	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.25	95	93	2.1	88	89	1.1	70 - 130	30	
Dibromochloromethane	ND	0.15	94	94	0.0	92	93	1.1	70 - 130	30	
Dibromomethane	ND	0.25	91	92	1.1	91	90	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	0.25	107	104	2.8	103	106	2.9	70 - 130	30	
Ethylbenzene	ND	0.25	98	97	1.0	97	99	2.0	70 - 130	30	
Hexachlorobutadiene	ND	0.25	104	104	0.0	98	102	4.0	70 - 130	30	
Isopropylbenzene	ND	0.25	97	97	0.0	95	98	3.1	70 - 130	30	
m&p-Xylene	ND	0.25	95	95	0.0	94	96	2.1	70 - 130	30	
Methyl ethyl ketone	ND	0.25	82	85	3.6	83	80	3.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	0.25	84	84	0.0	82	82	0.0	70 - 130	30	
Methylene chloride	ND	0.25	86	86	0.0	84	85	1.2	70 - 130	30	
Naphthalene	ND	0.25	103	108	4.7	93	100	7.3	70 - 130	30	
n-Butylbenzene	ND	0.25	105	104	1.0	97	100	3.0	70 - 130	30	
n-Propylbenzene	ND	0.25	100	98	2.0	95	98	3.1	70 - 130	30	
o-Xylene	ND	0.25	99	98	1.0	97	99	2.0	70 - 130	30	
p-Isopropyltoluene	ND	0.25	102	101	1.0	96	100	4.1	70 - 130	30	

QA/QC Data

SDG I.D.: GCF79123

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
sec-Butylbenzene	ND	0.25	104	103	1.0	100	102	2.0	70 - 130	30	
Styrene	ND	0.25	98	98	0.0	94	97	3.1	70 - 130	30	
tert-Butylbenzene	ND	0.25	98	96	2.1	94	97	3.1	70 - 130	30	
Tetrachloroethene	ND	0.25	98	96	2.1	95	97	2.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	0.25	85	86	1.2	89	82	8.2	70 - 130	30	
Toluene	ND	0.25	98	97	1.0	96	98	2.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	0.25	78	77	1.3	75	77	2.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.25	95	93	2.1	88	88	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	0.25	103	106	2.9	95	96	1.0	70 - 130	30	
Trichloroethene	ND	0.25	93	91	2.2	92	93	1.1	70 - 130	30	
Trichlorofluoromethane	ND	0.25	49	38	25.3	43	45	4.5	70 - 130	30	l,m
Trichlorotrifluoroethane	ND	0.25	92	93	1.1	93	97	4.2	70 - 130	30	
Vinyl chloride	ND	0.25	102	100	2.0	100	102	2.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	%	101	101	0.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	94	%	93	95	2.1	94	95	1.1	70 - 130	30	
% Dibromofluoromethane	90	%	90	91	1.1	91	92	1.1	70 - 130	30	
% Toluene-d8	89	%	98	98	0.0	97	96	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
May 09, 2020

Sample Criteria Exceedances Report

Criteria: CT: GAM, GBM, GWP, RC, SWP

State: CT

GCF79123 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF79124	$8260GWR	1,2-Dibromo-3-chloropropane	CT / RSR GWPC (ug/l) / APS Organics	ND	0.50	0.2	0.2	ug/L
CF79124	$8260GWR	1,2-Dibromoethane	CT / RSR GWPC (ug/l) / Volatiles	ND	0.50	0.05	0.05	ug/L
CF79125	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	25	7.3	3	3	ug/Kg
CF79125	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	120	36	3	3	ug/Kg
CF79125	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	370	36	3	3	ug/Kg
CF79125	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	370	36	20	20	ug/Kg
CF79125	$PEST_SMR	4,4' -DDD	CT / RSR GB (mg/kg) / APS Organics	25	7.3	20	20	ug/Kg
CF79125	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	120	36	20	20	ug/Kg
CF79125	PB-SM	Lead	CT / RSR DEC RES (mg/kg) / Inorganics	952	3.6	400	400	mg/Kg
CF79125	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.655	0.010	0.015	0.015	mg/L
CF79125	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.655	0.010	0.15	0.15	mg/L
CF79126	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	3.4	1.4	3	3	ug/Kg
CF79126	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.059	0.010	0.015	0.015	mg/L
CF79127	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	3.7	1.5	3	3	ug/Kg
CF79127	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	7.1	1.5	3	3	ug/Kg
CF79128	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	32	8.0	3	3	ug/Kg
CF79128	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	14	8.0	3	3	ug/Kg
CF79128	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	32	8.0	20	20	ug/Kg
CF79128	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.206	0.010	0.015	0.015	mg/L
CF79128	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.206	0.010	0.15	0.15	mg/L
CF79129	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	6.1	1.6	3	3	ug/Kg
CF79129	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	11	8.1	3	3	ug/Kg
CF79129	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	44	8.1	3	3	ug/Kg
CF79129	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	44	8.1	20	20	ug/Kg
CF79129	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.375	0.010	0.015	0.015	mg/L
CF79129	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.375	0.010	0.15	0.15	mg/L
CF79130	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	14	7.6	3	3	ug/Kg
CF79130	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	38	7.6	3	3	ug/Kg
CF79130	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	38	7.6	20	20	ug/Kg
CF79130	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.244	0.010	0.015	0.015	mg/L
CF79130	SPLP-PB	SPLP Lead	CT / RSR GB (mg/l) TCLP / Inorganic/PCB	0.244	0.010	0.15	0.15	mg/L
CF79131	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	14	8.0	3	3	ug/Kg
CF79131	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	15	8.0	3	3	ug/Kg
CF79132	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	41	9.3	3	3	ug/Kg
CF79132	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	22	9.3	3	3	ug/Kg
CF79132	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	41	9.3	20	20	ug/Kg

Saturday, May 09, 2020

Criteria: CT: GAM, GBM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCF79123 - TRC-NONDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CF79132	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	22	9.3	20	20	ug/Kg
CF79133	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	41	7.7	3	3	ug/Kg
CF79133	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	310	38	3	3	ug/Kg
CF79133	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	770	77	3	3	ug/Kg
CF79133	$PEST_SMR	4,4' -DDD	CT / RSR GB (mg/kg) / APS Organics	41	7.7	20	20	ug/Kg
CF79133	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	310	38	20	20	ug/Kg
CF79133	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	770	77	20	20	ug/Kg
CF79133	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	13.2	0.83	10	10	mg/Kg
CF79134	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	5.7	1.6	3	3	ug/Kg
CF79134	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	28	7.8	3	3	ug/Kg
CF79134	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	28	7.8	20	20	ug/Kg
CF79134	SPLP-PB	SPLP Lead	CT / RSR GA,GAA (mg/l) TCLP / Inorganic/PCB	0.081	0.010	0.015	0.015	mg/L
CF79135	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	5.3	1.5	3	3	ug/Kg
CF79135	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	29	7.3	3	3	ug/Kg
CF79135	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	89	36	3	3	ug/Kg
CF79135	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	89	36	20	20	ug/Kg
CF79135	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	29	7.3	20	20	ug/Kg
CF79136	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	80	38	3	3	ug/Kg
CF79136	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	28	7.6	3	3	ug/Kg
CF79136	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	5.6	1.5	3	3	ug/Kg
CF79136	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	28	7.6	20	20	ug/Kg
CF79136	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	80	38	20	20	ug/Kg
CF79137	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	3.7	1.5	3	3	ug/Kg
CF79137	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	12	7.5	3	3	ug/Kg
CF79138	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	23	7.8	3	3	ug/Kg
CF79138	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	11	7.8	3	3	ug/Kg
CF79138	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	23	7.8	20	20	ug/Kg
CF79139	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	20	7.0	3	3	ug/Kg
CF79139	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	5.0	1.4	3	3	ug/Kg
CF79139	AS-SM	Arsenic	CT / RSR DEC RES (mg/kg) / Inorganics	11.7	0.67	10	10	mg/Kg
CF79140	$PEST_SMR	4,4' -DDD	CT / RSR GA,GAA (mg/kg) / APS Organics	12	7.9	3	3	ug/Kg
CF79140	$PEST_SMR	4,4' -DDE	CT / RSR GA,GAA (mg/kg) / APS Organics	270	79	3	3	ug/Kg
CF79140	$PEST_SMR	4,4' -DDT	CT / RSR GA,GAA (mg/kg) / APS Organics	240	79	3	3	ug/Kg
CF79140	$PEST_SMR	4,4' -DDT	CT / RSR GB (mg/kg) / APS Organics	240	79	20	20	ug/Kg
CF79140	$PEST_SMR	4,4' -DDE	CT / RSR GB (mg/kg) / APS Organics	270	79	20	20	ug/Kg

Saturday, May 09, 2020

Criteria: CT: GAM, GBM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCF79123 - TRC-NONDAS

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:*** TRC Environmental Corp.

Project Location: CONN DOT-RT 15 MERRITT PARKW ***Project Number:***

Laboratory Sample ID(s): CF79123-CF79141 ***Sampling Date(s):*** 4/24/2020

List RCP Methods Used (e.g., 8260, 8270, et cetera) 1311/1312, 6010, 7470/7471, 8081, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***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: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Saturday, May 09, 2020

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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NY # 11301

RCP Certification Report

May 09, 2020

SDG I.D.: GCF79123

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.

Volatile 8260 analysis: Trip Blank
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria.

ETPH Narration

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

QC Batch 527688 (Samples: CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140): -----

The MS/MSD RPD exceeds the method criteria, therefore there may be variability in the reported result. (Ext. Petroleum H.C. (C9-C36))

Instrument:

AU-FID1 04/27/20-1 Jeff Bucko, Chemist 04/27/20

CF79126 (1X), CF79129 (1X)

The initial calibration (ETPH403I) 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 (427A003_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 04/24/20-1 Jeff Bucko, Chemist 04/24/20

CF79125 (1X), CF79127 (1X), CF79128 (1X), CF79130 (1X)

The initial calibration (ETPH211I) 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 (424A003_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 04/24/20-1 Jeff Bucko, Chemist 04/24/20

CF79131 (1X), CF79132 (1X), CF79133 (1X), CF79134 (1X), CF79135 (1X), CF79136 (1X), CF79137 (1X), CF79138 (1X), CF79139 (1X), CF79140 (1X)

The initial calibration (ETPH420I) 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 (424A003_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 04/28/20-1 Jeff Bucko, Chemist 04/28/20

CF79124 (1X)

The initial calibration (ETPH211I) 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 (428A003_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 527846 (CF79417)

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SDG I.D.: GCF79123

ETPH Narration

CF79124

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 527688 (CF79132)

CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140

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: Ext. Petroleum H.C. (C9-C36)(31.5%)
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 04/27/20 09:50 Rick Schweitzer, Chemist 04/27/20

CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 04/28/20 07:01 Rick Schweitzer, Chemist 04/28/20

CF79124

The method preparation blank, ICB, and CCBs contain all of the acids and reagents as the samples.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

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Certification Report

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SDG I.D.: GCF79123

Mercury Narration

QC (Batch Specific):

Batch 527761 (CF78723)

CF79124

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 527774 (CF78938)

CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS-2 04/25/20 08:41 Emily Kolominskaya, Chemist 04/25/20

CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS-2 04/27/20 09:19 Emily Kolominskaya, Chemist 04/27/20

CF79125

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 04/24/20 11:55 Cindy Pearce, Chemist 04/24/20

CF79124

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.

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SDG I.D.: GCF79123

ICP Metals Narration

BLUE 05/07/20 09:29 Tina Hall, Chemist 05/07/20

CF79125, CF79126, CF79128, CF79129, CF79130, CF79133, CF79134, CF79139

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 527684 (CF78767)

CF79124

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 527693 (CF78938)

CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All LCSD recoveries were within 75 - 125 with the following exceptions: None.
All LCS/LCSD RPDs were less than 35% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

Batch 529021 (CF77609)

CF79125, CF79126, CF79128, CF79129, CF79130, CF79133, CF79134, CF79139

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All LCSD recoveries were within 80 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.

PEST Narration

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

QC Batch 527921 (Samples: CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135): -----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (b-BHC, g-BHC)

Instrument:

AU-ECD35 04/28/20-1 Chelsey Guerette, Chemist 04/28/20

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SDG I.D.: GCF79123

PEST Narration

CF79136 (2X), CF79137 (2X), CF79138 (2X), CF79139 (2X), CF79140 (20X)

The initial calibration (PS0424AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0424BI) 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 04/29/20-1 Chelsey Guerette, Chemist 04/29/20

CF79131 (2X), CF79132 (2X), CF79134 (2X), CF79135 (2X, 10X), CF79136 (10X), CF79140 (2X)

The initial calibration (PS0424AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0424BI) 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 04/28/20-1 Chelsey Guerette, Chemist 04/28/20

CF79124 (1X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 04/29/20-1 Chelsey Guerette, Chemist 04/29/20

CF79125 (2X, 10X), CF79126 (2X), CF79127 (2X), CF79128 (2X), CF79129 (2X), CF79130 (2X), CF79133 (2X, 10X, 20X)

The initial calibration (PS0422AI) RSD for the compound list was less than 20% except for the following compounds: None.
The initial calibration (PS0422BI) 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 527816 (CF75433)

CF79136, CF79137, CF79138, CF79139, CF79140

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 527833 (CF79124)

CF79124

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

Batch 528085 (CF80740)

CF79125

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PEST Narration

All LCS recoveries were within 40 - 140 with the following exceptions: None.
All LCSD recoveries were within 40 - 140 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

QC (Site Specific):

Batch 527921 (CF79129)

CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135

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(36.2%), g-BHC(39.3%)

SVOA Narration

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

QC Batch 527686 (Samples: CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range. A slight low bias is possible. (Benzo(ghi)perylene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Pyrene)

Instrument:

CHEM28 04/24/20-2 Wes Bryon, Chemist 04/24/20

CF79125 (1X), CF79126 (1X), CF79127 (1X), CF79128 (1X), CF79129 (1X), CF79130 (1X), CF79131 (1X), CF79132 (1X), CF79133 (1X), CF79134 (1X), CF79135 (1X), CF79136 (1X), CF79137 (1X), CF79138 (1X), CF79139 (1X), CF79140 (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_0327):
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 (CHEM28/0424_27-28_BN_0327):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

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SDG I.D.: GCF79123

SVOA Narration

QC (Batch Specific):

Batch 527964 (CF80195)

CF79124

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
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 527686 (CF79131)

CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140

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: Benzo(ghi)perylene(38%), Benzo(k)fluoranthene(38%), Indeno(1,2,3-cd)pyrene(39%)
All MS/MSD RPDs were less than 30% with the following exceptions: Benzo(b)fluoranthene(32.0%), Benzo(k)fluoranthene(31.1%), Chrysene(32.5%), Fluoranthene(51.5%), Pyrene(50.4%)
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%)

SVOASIM Narration

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

Instrument:

CHEM25 04/29/20-1 Wes Bryon, Chemist 04/29/20

CF79124 (1X)

For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

Initial Calibration Evaluation (CHEM25/25_BNSIM18_0414):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/0429_03-25_BNSIM18_0414):
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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SDG I.D.: GCF79123

SVOASIM 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 527964 (CF80195)

CF79124

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 527686 (CF79131)

CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140

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: Benzo(ghi)perylene(38%), Benzo(k)fluoranthene(38%), Indeno(1,2,3-cd)pyrene(39%)
All MS/MSD RPDs were less than 30% with the following exceptions: Benzo(b)fluoranthene(32.0%), Benzo(k)fluoranthene(31.1%), Chrysene(32.5%), Fluoranthene(51.5%), Pyrene(50.4%)
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%)

VOA 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

May 09, 2020

SDG I.D.: GCF79123

VOA Narration

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

QC Batch 527792 (Samples: CF79123, CF79125, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138): -----

QC Batch 527792H: -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone, Chloroethane, Trichlorofluoromethane)

QC Batch 527906 (Samples: CF79126): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane, Carbon tetrachloride, Chloromethane, Dibromochloromethane, Dichlorodifluoromethane, Trichlorofluoromethane, Vinyl chloride)

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. (Acetone)

QC Batch 527906H: -----

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. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, Naphthalene)

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. (1,2,3-Trichloropropane)

QC Batch 527920 (Samples: CF79124): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane)

Instrument:

CHEM03 04/24/20-1 Jane Li, Chemist 04/24/20

CF79139 (1X), CF79140 (1X)

Initial Calibration Evaluation (CHEM03/VT-L042220P):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 21% (20%), Bromoform 26% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: Acetone 0.098 (0.1), Tetrachloroethene 0.188 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM03/0424_13-VT-L042220P):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.

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RCP Certification Report

May 09, 2020

SDG I.D.: GCF79123

VOA Narration

The following compounds did not meet Table 4 recommended minimum response factors: None.

CHEM14 04/24/20-2 Jane Li, Chemist 04/24/20

CF79123 (1X), CF79125 (1X), CF79127 (1X), CF79128 (1X), CF79129 (1X), CF79130 (1X), CF79131 (1X), CF79132 (1X), CF79133 (1X), CF79134 (1X), CF79135 (1X), CF79136 (1X), CF79137 (1X), CF79138 (1X), CF79141 (50X)

Initial Calibration Evaluation (CHEM14/VT042020):
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 Table 4 recommended minimum response factors: Tetrachloroethene 0.189 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0424_36-VT042020):
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.

CHEM14 04/27/20-1 Jane Li, Chemist 04/27/20

CF79126 (1X, 50X), CF79129 (50X), CF79130 (50X), CF79131 (50X)

Initial Calibration Evaluation (CHEM14/VT042020):
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 Table 4 recommended minimum response factors: Tetrachloroethene 0.189 (0.2)
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM14/0427_02-VT042020):
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 Table 4 recommended minimum response factors: None.

CHEM17 04/25/20-1 Michael Hahn, Chemist 04/25/20

CF79124 (1X)

Chem 17 is a 25ml purge instrument. The laboratory minimum response factor is set at 0.01 instead of 0.05 for the 25ml purge instruments.
EPA method 8260D Table 4 supports this approach.

Initial Calibration Evaluation (CHEM17/VT-042020):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane 28% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.039 (0.05), 2-Hexanone 0.083 (0.1), Acetone 0.036 (0.1), Acrylonitrile 0.048 (0.05), Bromoform 0.077 (0.1), Methyl ethyl ketone 0.051 (0.1), Tetrahydrofuran (THF) 0.031 (0.05)
The following compounds did not meet the minimum response factor of 0.05: 1,2-Dibromo-3-chloropropane 0.039 (0.05), Acetone 0.036 (0.05), Acrylonitrile 0.048 (0.05), Tetrahydrofuran (THF) 0.031 (0.05)

Continuing Calibration Verification (CHEM17/0425_02-VT-042020):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

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RCP Certification Report

May 09, 2020

SDG I.D.: GCF79123

VOA Narration

100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet Table 4 recommended minimum response factors: 1,2-Dibromo-3-chloropropane 0.037 (0.05), Acetone 0.042 (0.05), Acrylonitrile 0.048 (0.05), Tetrahydrofuran (THF) 0.035 (0.05)

CHEM26 04/27/20-1 Jane Li, Chemist 04/27/20

CF79140 (50X)

Initial Calibration Evaluation (CHEM26/VT-040920):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: trans-1,4-dichloro-2-butene 27% (20%)
The following compounds did not meet Table 4 recommended minimum response factors: None.
The following compounds did not meet the minimum response factor of 0.05: None.

Continuing Calibration Verification (CHEM26/0427_02-VT-040920):
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 527792 (CF79179) CHEM14 4/24/2020-2

CF79123(1X), CF79125(1X), CF79127(1X), CF79128(1X), CF79129(1X), CF79130(1X), CF79131(1X), CF79132(1X), CF79133(1X), CF79134(1X), CF79135(1X), CF79136(1X), CF79137(1X), CF79138(1X)

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%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527792H (CF79179) CHEM14 4/24/2020-2

CF79141(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(36%), Chloroethane(33%), Trichlorofluoromethane(49%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(40%), Chloroethane(31%), Trichlorofluoromethane(38%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527807 (CF78688) CHEM03 4/24/2020-1

CF79139(1X), CF79140(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The MSD is not reported for this LL soil batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-

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RCP Certification Report

May 09, 2020

SDG I.D.: GCF79123

VOA Narration

160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527906 (CF79126) CHEM14 4/27/2020-1

CF79126(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(68%), Bromomethane(135%), Carbon tetrachloride(137%), Dibromochloromethane(133%), Dichlorodifluoromethane(177%), Vinyl chloride(137%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(145%), Carbon tetrachloride(147%), Chloromethane(139%), Dibromochloromethane(135%), Dichlorodifluoromethane(190%), Trichlorofluoromethane(132%), Vinyl chloride(144%)
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 527920 (CF79107) CHEM17 4/25/2020-1

CF79124(1X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(136%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Batch 527925H (CF78464) CHEM26 4/27/2020-1

CF79140(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QC (Site Specific):

Batch 527906H (CF79126) CHEM14 4/27/2020-1

CF79129(50X), CF79130(50X), CF79131(50X)

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(48%), 1,2,3-Trichloropropane(136%), 1,2,4-Trichlorobenzene(47%), 1,2,4-Trimethylbenzene(67%), Naphthalene(50%)
All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(51%), 1,2,3-Trichloropropane(146%), 1,2,4-Trichlorobenzene(52%), 1,2,4-Trimethylbenzene(69%), Naphthalene(58%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

Temperature Narration

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

NY # 11301

RCP Certification Report

May 09, 2020

SDG I.D.: GCF79123

The samples were received at 1.3C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

CHAIN OF CUSTODY RECORD

PHOENIX Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1°C Pg 1 of

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagnon@trccompanies.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: ConnDot - RT15 Merritt Parkway
Report to: Kristi Gagnon
Invoice to: TRC
QUOTE #

Project P.O: 152374

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Kristi Gagnon Date: 4-24-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	DAH (8270)	Total RCRA 8 metals	Pesticides (8081)	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [X] methanol [X] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
79123	TB202004241	S	4-24-20	1300	X						2										2
79124	EB20200424	S	4-24-20	1315	X	X	X	X	X					3	4			1			8
79125	SB-61	S	4-24-20	1325	X	X	X	X	X		3	2									5
79126	SB-62	S	4-24-20	1330	X	X	X	X	X		3	2									5
79127	SB-63	S	4-24-20	1335	X	X	X	X	X		3	2									5
79128	SB-64	S	4-24-20	1340	X	X	X	X	X		3	2									5
79129	SB-65	S	4-24-20	1345	X	X	X	X	X		3	2									5
79130	SB-66	S	4-24-20	1355	X	X	X	X	X		3	2									5
79131	SB-67	S	4-24-20	1400	X	X	X	X	X		3	2									5
79132	SB-68	S	4-24-20	~~1410~~ 1405	X	X	X	X	X		3	2									5
79133	SB-69	S	4-24-20	1410	X	X	X	X	X		3	2									5
79134	SB-70	S	4-24-20	~~1415~~ 1415	X	X	X	X	X		3	2									5

Relinquished by:	Accepted by:	Date:	Time:
Kristi Gagnon	[signature]	4/24/20	1500
[signature]	[signature]	4/24/20	1622

Comments, Special Requirements or Regulations:
- Non-DAS Pricing
No Sales Tax - ConnDot
Day 5

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other

* SURCHARGE APPLIES

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]
Temp 6.2 Pg of

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: kgagner@trcsolutions.com

Customer: TRC
Address: 21 Griffin Road North, Windsor, CT 06095

Project: ConnDot - RT 15 Merritt Parkway Project P.O: 152374
Report to: Matt Gagner
Invoice to: TRC
QUOTE #

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Matt Gagner Date: 4-24-20

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs (8260)	ETPH	PAHs (8270 SIM)	Total RCRA 8 Metals	Pesticides (8081)	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] Methanol [ ] DI-H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
79135	SB-71	S	4-24-20	1420	X	X	X	X	X		3	2									5
79136	SB-71B	S	4-24-20	1425	X	X	X	X	X		3	2									5
79137	SB-72	S	4-24-20	1435	X	X	X	X	X		3	2									5
79138	SB-73	S	4-24-20	1440	X	X	X	X	X		3	2									5
79139	SB-74	S	4-24-20	1445	X	X	X	X	X		3	2									5
79140	SB-75	S	4-24-20	1450	X	X	X	X	X		3	2									5
79114	TB20200424H	S	4-24-20	1300	X	X	X	X	X		1	~~2~~ HP									1

Relinquished by:	Accepted by:	Date:	Time:
		4/24/20	1500
		4/24/20	

Comments, Special Requirements or Regulations:
Non-DAS Pricing
No Sales Tax - ConnDot
Day 5

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[X] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[X] GA Mobility
[X] GB Mobility
[X] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: CT

Data Format
[X] Excel
[X] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other
* SURCHARGE APPLIES

Loreen Fay

From: Gagnon, Kristi <KGagnon@trccompanies.com>
Sent: Wednesday, May 06, 2020 1:45 PM
To: Loreen Fay
Subject: FW: [EXTERNAL] Phoenix Labs - GCF79123, CONN DOT-RT 15 MERRITT PARKWAY - Report Ready

Good afternoon Loreen,

Please see below sent to Sarah.

Thanks,
Kristi Gagnon
Environmental Scientist II

21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | **C** 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Gagnon, Kristi
Sent: Wednesday, May 6, 2020 1:44 PM
To: Sarah - Phoenixlabs (sarah@phoenixlabs.com) <sarah@phoenixlabs.com>
Subject: FW: [EXTERNAL] Phoenix Labs - GCF79123, CONN DOT-RT 15 MERRITT PARKWAY - Report Ready

Good afternoon Sarah,

Can we also run these samples for SPLP Metals for lead, standard TAT:

SB-61,
SB-62,
SB-64,
SB-65,
SB-66,
SB-70

Also, SPLP Metals for arsenic for the following, standard TAT:

SB-69,
SB-74

Kristi Gagnon
Environmental Scientist II

21 Griffin Road North, Windsor, CT 06095
T 860.298.9692 | **C** 860.573.9160
LinkedIn | Twitter | Blog | TRCcompanies.com

From: clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
Sent: Tuesday, May 5, 2020 3:55 PM
To: Gagnon, Kristi <KGagnon@trccompanies.com>
Subject: [EXTERNAL] Phoenix Labs - GCF79123, CONN DOT-RT 15 MERRITT PARKWAY - Report Ready

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Delivery group GCF79123 (CONN DOT-RT 15 MERRITT PARKWAY) for the following samples:

CF79123 - TB20200424L
CF79124 - EB20200424
CF79125 - SB-61
CF79126 - SB-62
CF79127 - SB-63
CF79128 - SB-64
CF79129 - SB-65
CF79130 - SB-66
CF79131 - SB-67
CF79132 - SB-68
CF79133 - SB-69
CF79134 - SB-70
CF79135 - SB-71
CF79136 - SB-71B
CF79137 - SB-72
CF79138 - SB-73
CF79139 - SB-74
CF79140 - SB-75
CF79141 - TB20200424H

is available for review. Please click the following link to view report data.

www.PhoenixLabs.com

Note: The default password is your email address. You may change it after logging in.

Please take a moment to give us some feedback on your experience with Phoenix Environmental Laboratories, Inc. Your input is valuable to us!
www.phoenixlabs.com/CustomerSurvey

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:KGagnon@trccompanies.com

APPENDIX B

DATA QUALITY ASSESSMENT/DATA USABILITY EVALUATION

Analytical Data Review Checklist

Site: Route 15 Merritt Parkway Location: New Canaan-Norwalk-Westport Client Name: ConnDOT Project #: 237612.005715.000210	Laboratory: Phoenix Environmental Laboratory, Inc. (Phoenix) Lab Report #: GCF75982	QA Reviewer: Kristi Gagnon Date: May 11, 2020
Analytical Method(s): VOCs 8260, PAHs 8270, CT ETPH, Pesticides 8081, Total RCRA 8 Metals, SPLP RCRA 8 Metals	Matrices Sampled: Soil	Sample Collection Date(s): 4/20/2020
Sampling Objective(s): Determine shallow soil quality to be excavated as part of the shoulder widening construction project.		
Sample IDs: (list IDs or attach COC): See COC for Laboratory Report GCF75982		

NOTE: Provide comments if any of the shaded boxes are checked.

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Did samples arrive at the laboratory appropriately preserved?	X			Soil VOC samples collected in the field using Terra Core 5 gram samplers.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?	X			
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
13	Were soil/sediment results reported on a dry weight basis?	X			
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?			X	Not requested.
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			**SB-01** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-02** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (20) **SB-03** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (10) **SB-04** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-05** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-06** Metals: Mercury (5), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-07** Metals: Mercury (5), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-08** Metals: Mercury (5), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (20)
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Explanation not provided. Analytical samples are typically diluted when the concentration of one or more analytes in the undiluted sample exceeds the upper limit of the calibration curve or if matrix interference is present.
QC Results					
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.	X			EB20200420 A trace amount of Chromium was detected but not reported in the samples, therefore no bias suspected.
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.		X		**CF75710:** TPH – Soils: ETPH (128) **CF75991**: Volatiles – Soil (Low Level): Bromomethane (122-131)(not detected in soil samples for this project) **CF75991 50X**: Volatiles – Soil (High Level): 1,1-Dichloroethene (64, 61), Acetone (58, 59), Carbon Disulfide (64. 63), Chloroethane (42, 39), and Trichlorofluoromethane (31, 28) (not detected in soil samples for this project)
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.		X		**CF75710:** TPH – Soils: ETPH (61.2) and % n-Pentacosane (55.6) **CF75989:** TPH – Soils: ETPH (55) and % n-Pentacosane (53) **CF61321:** Pesticides – Water: Endosulfan Sulfate (31.6) (not detected in field or equipment blank water samples for this project) **CF75889:** ICP Metals – Soils: Chromium (86.6)
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			X	Not performed on project sample.
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.			X	Not performed on project sample.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	Not performed on project sample.
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.			X	

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.		X		**CF75710:** TPH –Soils: % n-Pentacosane (55.6) **CF75989:** TPH – Soils: % n-Pentacosane (53)
Laboratory Comments					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).	X			ETPH **CF75710:** TPH – Soils: ETPH and % n-Pentacosane (surrogate) - Surrogate below criteria, low bias affects the blanks only. - LCS/LSD is above the upper range, therefore a slight high bias is **possible** - LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result (ETPH) - LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result (% n-Pentacosane) Metals QC Batch 527028 (Samples: CF75983): ----- A trace amount of an analyte was found in blank but were not reported in the sample(s), therefore no bias is suspected. (Aqueous- Chromium) QC Batch 527048 (Samples: CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991): ----- The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Chromium) Pesticides QC Batch 527018 (Samples: CF75983): ----- 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. (Endosulfan sulfate) QC Batch 527054 (Samples: CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991): VOA QC Batch 527105 (Samples: CF75982, CF75984, CF75985, CF75986, CF75987, CF75988, CF75989, CF75990, CF75991): The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane) QC Batch 527105H: ----- The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (1,1-Dichloroethene, Acetone, Carbon Disulfide, Chloroethane, Trichlorofluoromethane)
32	Were any other potential data quality issues identified? If yes, describe issues.		X		

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
Do the Data Make Sense?					
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?			X	No EDD requested.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data, but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

COC = Chain-of-Custody
EDD = Electronic Data Deliverable
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

Analytical Data Review Checklist

Site: Route 15 Merritt Parkway Location: New Canaan-Norwalk-Westport Client Name: ConnDOT Project #: 237612.005715.000210	Laboratory: Phoenix Environmental Laboratory, Inc. (Phoenix) Lab Report #: GCF77596	QA Reviewer: Kristi Gagnon Date: May 15, 2020
Analytical Method(s): VOCs 8260, PAHs 8270, CT ETPH, Pesticides 8081, Total RCRA 8 Metals, SPLP RCRA 8 Metals	Matrices Sampled: Soil	Sample Collection Date(s): 4/20/2020
Sampling Objective(s): Determine shallow soil quality to be excavated as part of the shoulder widening construction project.		
Sample IDs: (list IDs or attach COC): See COC for Laboratory Report GCF77596		

NOTE: Provide comments if any of the shaded boxes are checked.

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Did samples arrive at the laboratory appropriately preserved?	X			Soil VOC samples collected in the field using Terra Core 5 gram samplers.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?	X			
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
13	Were soil/sediment results reported on a dry weight basis?	X			
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?			X	Not requested.
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			**SB-09** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-10** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (10) **SB-11** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (2) **SB-12** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-13** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-14** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-15** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-11B** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2)
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Explanation not provided. Analytical samples are typically diluted when the concentration of one or more analytes in the undiluted sample exceeds the upper limit of the calibration cure or if matrix interference is present.
QC Results					
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.			X	
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).			X	

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.		X		**CF76926**: Volatiles – Soil (Low Level): Acetone (137, 133), Bromomethane (135, 139), and trans-1,4,-dichloro-2-butene (131) (not detected in soil samples for this project)
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.	X			
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			X	Not performed on project sample.
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.			X	Not performed on project sample.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	Not performed on project sample.
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.	X			
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
Laboratory Comments					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).	X			VOA QC Batch 527441 (Samples: CF77601, CF77602, CF77603): ---- 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. (Acetone, Bromomethane, trans-1,4-dichloro-2-butene)
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
Do the Data Make Sense?					
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?			X	No EDD requested.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data, but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

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MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

Analytical Data Review Checklist

Site: Route 15 Merritt Parkway Location: New Canaan-Norwalk-Westport Client Name: ConnDOT Project #: 237612.005715.000210	Laboratory: Phoenix Environmental Laboratory, Inc. (Phoenix) Lab Report #: GCF76722	QA Reviewer: Kristi Gagnon Date: May 15, 2020
Analytical Method(s): VOCs 8260, PAHs 8270, CT ETPH, Pesticides 8081, Total RCRA 8 Metals, SPLP RCRA 8 Metals	Matrices Sampled: Soil	Sample Collection Date(s): 4/21/2020
Sampling Objective(s): Determine shallow soil quality to be excavated as part of the shoulder widening construction project.		
Sample IDs: (list IDs or attach COC): See COC for Laboratory Report GCF76722		

NOTE: Provide comments if any of the shaded boxes are checked.

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Did samples arrive at the laboratory appropriately preserved?	X			Soil VOC samples collected in the field using Terra Core 5 gram samplers.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?	X			
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
13	Were soil/sediment results reported on a dry weight basis?	X			
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?			X	Not requested.
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			**SB-16** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-17** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Volatiles: Several (50) **SB-18** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-19** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-20** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Volatiles: Several (50) **SB-21** Metals: Mercury (2), Lead (10), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-22** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-23** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-24** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-25** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-26** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-22B** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2)
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Explanation not provided. Analytical samples are typically diluted when the concentration of one or more analytes in the undiluted sample exceeds the upper limit of the calibration cure or if matrix interference is present.
QC Results					
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			

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	Review Item or Question	Y	N	NA	Comments[1]
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.		X		**CF76727:** TPH – Soil: ETPH (121) **CF76926**: Volatiles – Soil (Low Level): Acetone (69) and Dichlorodifluoromethane (137,135) **CF76082 50X**: Volatiles – Soil (High Level): Acetone (53, 53), Chloroethane (34, 34), Dichlorodifluoromethane (138,137), and Trichlorofluoromethane (43, 42) (not detected in soil samples for this project) **CF76723**: Volatiles – Groundwater: Bromomethane (131)
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.		X		**CF76569 2X:** Mercury – Soil: (34.5) **CF76498**: Pesticides – Groundwater: 4,4'-DDD (21) **CF76730 2X**: Pesticides – Soil: 4,4'-DDD (37.3)
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			X	Not performed on project sample.
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.			X	Not performed on project sample.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	Not performed on project sample.

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	Review Item or Question	Y	N	NA	Comments[1]
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.	X			
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.			X	**CF76587:** TPH – % n-Pentacosane (outside lab blank surrogate specified recovery limit)
Laboratory Comments					

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).	X			SDG COMMENTS Volatile 8260 analysis: 1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane do not meet the GWP these compounds are analyzed by GC/ECD to achieve this criteria. ETPH QC Batch 527180 (Samples: CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733): ----- The LCS and/or the LCSD recovery is above the upper range, therefore a slight high bias is possible. (Ext. Petroleum H.C. (C9-C36)) Mercury QC Batch 527180 (Samples: CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733): ----- The LCS and/or the LCSD recovery is above the upper range, therefore a slight high bias is possible. (Ext. Petroleum H.C. (C9-C36)) Pesticide QC Batch 527175 (Samples: CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735): ----- The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (4,4" -DDD) QC Batch 527298 (Samples: CF76723): ----- One or more surrogates is outside of criteria. (% DCBP (Confirmation), % TCMX (Confirmation)) 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. (4,4" -DDD) VOA QC Batch 527273 (Samples: CF76722, CF76724, CF76725, CF76726, CF76727, CF76728, CF76729, CF76730, CF76731, CF76732, CF76733, CF76734, CF76735): ----- The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone) 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. (Dichlorodifluoromethane) QC Batch 527273H: ----- The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone, Chloroethane, Trichlorofluoromethane) The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane) QC Batch 527429 (Samples: CF76723): ----- The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane)

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
Do the Data Make Sense?					
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?			X	No EDD requested.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data, but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

COC = Chain-of-Custody
EDD = Electronic Data Deliverable
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

Analytical Data Review Checklist

Site: Route 15 Merritt Parkway Location: New Canaan-Norwalk-Westport Client Name: ConnDOT Project #: 237612.005715.000210	Laboratory: Phoenix Environmental Laboratory, Inc. (Phoenix) Lab Report #: GCF77604	QA Reviewer: Kristi Gagnon Date: May 15, 2020
Analytical Method(s): VOCs 8260, PAHs 8270, CT ETPH, Pesticides 8081, Total RCRA 8 Metals, SPLP RCRA 8 Metals	Matrices Sampled: Soil	Sample Collection Date(s): 4/22/2020
Sampling Objective(s): Determine shallow soil quality to be excavated as part of the shoulder widening construction project.		
Sample IDs: (list IDs or attach COC): See COC for Laboratory Report GCF77604		

NOTE: Provide comments if any of the shaded boxes are checked.

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?		X		Samples collected 4/22/2020 per COC, report states 4/20/2020
4	Did samples arrive at the laboratory appropriately preserved?	X			Soil VOC samples collected in the field using Terra Core 5 gram samplers.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?	X			
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
13	Were soil/sediment results reported on a dry weight basis?	X			
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?			X	Not requested.
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			**TB20200422** Volatiles: Several (50) **SB-31** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-32** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-33** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10), Aldrin (10) (not detected in soil samples for this project) **SB-34** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-35** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-36** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-37** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-38** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-39** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Polynuclear Aromatic HC: Fluoranthene (10) and Pyrene (10) **SB-40** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-41** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-42** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-43** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-44** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-45** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (10) **SB-39B** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2)
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Explanation not provided. Analytical samples are typically diluted when the concentration of one or more analytes in the undiluted sample exceeds the upper limit of the calibration cure or if matrix interference is present.
QC Results					

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.		X		**CF77614:** TPH – Soil: ETPH (121) **CF77202:** Pesticides – Groundwater: d-HC (34) **CF76926:** Volatiles – Soil (Low Level): Acetone (137, 133), Bromomethane (135, 139), and trans-1,4-dichloro-2-butene (131) **CF76926 50X:** Volatiles – Soil (High Level): 1,1-Dichloroethene (58, 57), Carbon Disulfide (60, 60), Chloroethane (41, 39), and Trichlorofluoromethane (29, 28) **CF77135:** Volatiles – Soil (Low Level): Bromomethane (146, 141), Carbon Disulfide (131), cis-1,2-Dichloroethene (131), and Trichlorofluoroethane (135) **CF77263**: Volatiles – Groundwater: Bromomethane (144, 150)
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.		X		**CF77619:** Metals – Soil: Barium (42.5) and Chromium (67.9) **CF77202:** Pesticides – Groundwater: d-HC (21.1) (not detected in soil samples for this project)

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			X	Not performed on project sample.
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.			X	Not performed on project sample.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	Not performed on project sample.
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.			X	
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.		X		The following QC sample is outside the laboratory RPD specified recovery limits: **CF77202:** Pesticides – Groundwater: % DCBP (Confirmation) (35.5) and % TCMX (Confirmation) (27.8)
Laboratory Comments					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).	X			SVOA QC Batch 527469 (Samples: CF77595): ----- 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. (2-Methylnaphthalene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Naphthalene) The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s), so no variability is suspected. (2-Methylnaphthalene, Acenaphthene, Naphthalene) The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Acenaphthylene) The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2-Fluorobiphenyl, % Nitrobenzene-d5)
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
Do the Data Make Sense?					

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?			X	No EDD requested.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data, but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

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MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

Analytical Data Review Checklist

Site: Route 15 Merritt Parkway Location: New Canaan-Norwalk-Westport Client Name: ConnDOT Project #: 237612.005715.000210	Laboratory: Phoenix Environmental Laboratory, Inc. (Phoenix) Lab Report #: GCF77604	QA Reviewer: Kristi Gagnon Date: May 15, 2020
Analytical Method(s): VOCs 8260, PAHs 8270, CT ETPH, Pesticides 8081, Total RCRA 8 Metals, SPLP RCRA 8 Metals	Matrices Sampled: Soil	Sample Collection Date(s): 4/22/2020
Sampling Objective(s): Determine shallow soil quality to be excavated as part of the shoulder widening construction project.		
Sample IDs: (list IDs or attach COC): See COC for Laboratory Report GCF77604		

NOTE: Provide comments if any of the shaded boxes are checked.

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?		X		Samples collected 4/22/2020 per COC, report states 4/20/2020
4	Did samples arrive at the laboratory appropriately preserved?	X			Soil VOC samples collected in the field using Terra Core 5 gram samplers.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?	X			
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
13	Were soil/sediment results reported on a dry weight basis?	X			
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?			X	Not requested.
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			**TB20200422** Volatiles: Several (50) **SB-31** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-32** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-33** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10), Aldrin (10) (not detected in soil samples for this project) **SB-34** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-35** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-36** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-37** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-38** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-39** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Polynuclear Aromatic HC: Fluoranthene (10) and Pyrene (10) **SB-40** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-41** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-42** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-43** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-44** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-45** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (10) **SB-39B** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2)
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Explanation not provided. Analytical samples are typically diluted when the concentration of one or more analytes in the undiluted sample exceeds the upper limit of the calibration cure or if matrix interference is present.
QC Results					

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.		X		**CF77614:** TPH – Soil: ETPH (121) **CF77202:** Pesticides – Groundwater: d-HC (34) **CF76926:** Volatiles – Soil (Low Level): Acetone (137, 133), Bromomethane (135, 139), and trans-1,4-dichloro-2-butene (131) **CF76926 50X:** Volatiles – Soil (High Level): 1,1-Dichloroethene (58, 57), Carbon Disulfide (60, 60), Chloroethane (41, 39), and Trichlorofluoromethane (29, 28) **CF77135:** Volatiles – Soil (Low Level): Bromomethane (146, 141), Carbon Disulfide (131), cis-1,2-Dichloroethene (131), and Trichlorofluoroethane (135) **CF77263**: Volatiles – Groundwater: Bromomethane (144, 150)
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.		X		**CF77619:** Metals – Soil: Barium (42.5) and Chromium (67.9) **CF77202:** Pesticides – Groundwater: d-HC (21.1) (not detected in soil samples for this project)

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			X	Not performed on project sample.
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.			X	Not performed on project sample.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	Not performed on project sample.
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.			X	
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.		X		The following QC sample is outside the laboratory RPD specified recovery limits: **CF77202:** Pesticides – Groundwater: % DCBP (Confirmation) (35.5) and % TCMX (Confirmation) (27.8)
Laboratory Comments					

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).	X			ETPH QC Batch 527440 (Samples: CF77614, CF77615, CF77616, CF77617, CF77618, CF77619, CF77620, CF77621, CF77622): The LCSD recovery is above the upper range, therefore a slight high bias is possible. (Ext. Petroleum H.C. (C9-C36)) Pesticide QC Batch 527487 (Samples: CF77606): ----- The LCS recovery is below the method criteria. The LCSD is acceptable. A slight low bias is possible. (d-BHC) The LCS/LCSD RPD exceeds the method criteria for one analyte and the surrogates. This analyte was not reported in the sample(s). No significant variability is suspected. (d-BHC, % DCBP (Confirmation), % TCMX (Confirmation)) VOA VOC QC Batch 527441 (Samples: CF77604, CF77607, CF77608, CF77609, CF77610, CF77611, CF77612, CF77613, CF77614, CF77615, CF77616, CF77617, CF77618, CF77619): ----- 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. (Acetone, Bromomethane, trans-1,4-dichloro-2-butene) QC Batch 527441H: ----- The QC recoveries for one or more analytes is below the lower range. A slight low bias is possible. (1,1-Dichloroethene, Carbon Disulfide) The QC recoveries for one or more analytes is below the method criteria. A low bias is likely. (Chloroethane, Trichlorofluoromethane) QC Batch 527451 (Samples: CF77620, CF77621, CF77622): - 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, cis-1,2-Dichloroethene, Trichlorotrifluoroethane) The QC recovery for one analyte are above the upper range but was not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane) QC Batch 527455 (Samples: CF77606): ----- 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. (Bromomethane)
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
Do the Data Make Sense?					
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?			X	No EDD requested.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data, but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

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LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

Analytical Data Review Checklist

Site: Route 15 Merritt Parkway Location: New Canaan-Norwalk-Westport Client Name: ConnDOT Project #: 237612.005715.000210	Laboratory: Phoenix Environmental Laboratory, Inc. (Phoenix) Lab Report #: GCF78425	QA Reviewer: Kristi Gagnon Date: May 15, 2020
Analytical Method(s): VOCs 8260, PAHs 8270, CT ETPH, Pesticides 8081, Total RCRA 8 Metals, SPLP RCRA 8 Metals	Matrices Sampled: Soil	Sample Collection Date(s): 4/23/2020
Sampling Objective(s): Determine shallow soil quality to be excavated as part of the shoulder widening construction project.		
Sample IDs: (list IDs or attach COC): See COC for Laboratory Report GCF78425		

NOTE: Provide comments if any of the shaded boxes are checked.

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Did samples arrive at the laboratory appropriately preserved?	X			Soil VOC samples collected in the field using Terra Core 5 gram samplers.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?	X			
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
13	Were soil/sediment results reported on a dry weight basis?	X			
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?			X	Not requested.
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			**SB-46** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-47** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-48** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (20) **SB-49** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-50** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-51** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-52** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-53** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-54** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-55** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Volatiles: Several (50) **SB-56** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-57** Metals: Mercury (2), ETPH: (5) Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Volatiles: Several (50) **SB-58** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Volatiles: Several (50) **SB-59** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-60** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-52B** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2)
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Explanation not provided. Analytical samples are typically diluted when the concentration of one or more analytes in the undiluted sample exceeds the upper limit of the calibration cure or if matrix interference is present.
QC Results					

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.			X	
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).			X	
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.		X		**CF77756:** Volatiles – Soil (Low Level): Dichlorodifluoromethane (137) (not detected in soil samples for this project)
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.	X			
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			X	Not performed on project sample.
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.			X	Not performed on project sample.

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	Not performed on project sample.
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.			X	
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.		X		**CF77947: TPH – Soil: % n-Pentacosane**
Laboratory Comments					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).	X			ETPH QC Batch 527443 (Samples: CF78425, CF78426, CF78427, CF78428, CF78429, CF78430, CF78431): ----- The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% n-Pentacosane) QC Batch 527493 (Samples: CF78432, CF78433, CF78434, CF78435, CF78436, CF78437, CF78438, CF78439, CF78440): -----The blank surrogate was below criteria. (% n-Pentacosane(CF77947)) VOA QC Batch 527605 (Samples: CF78425, CF78426, CF78427, CF78428, CF78429): ----- 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. (Dichlorodifluoromethane)
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
Do the Data Make Sense?					
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?			X	No EDD requested.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data, but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

COC = Chain-of-Custody

EDD = Electronic Data Deliverable
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments:

Analytical Data Review Checklist

Site: Route 15 Merritt Parkway Location: New Canaan-Norwalk-Westport Client Name: ConnDOT Project #: 237612.005715.000210	Laboratory: Phoenix Environmental Laboratory, Inc. (Phoenix) Lab Report #: GCF79123	QA Reviewer: Kristi Gagnon Date: May 15, 2020
Analytical Method(s): VOCs 8260, PAHs 8270, CT ETPH, Pesticides 8081, Total RCRA 8 Metals, SPLP RCRA 8 Metals	Matrices Sampled: Soil	Sample Collection Date(s): 4/24/2020
Sampling Objective(s): Determine shallow soil quality to be excavated as part of the shoulder widening construction project.		
Sample IDs: (list IDs or attach COC): See COC for Laboratory Report GCF79123		

NOTE: Provide comments if any of the shaded boxes are checked.

	Review Item or Question	Y	N	NA	Comments[1]
Sample Traceability / Chain of Custody					
1	Were COC forms appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Did samples arrive at the laboratory appropriately preserved?	X			Soil VOC samples collected in the field using Terra Core 5 gram samplers.
	Was the cooler temperature between 0-6°C?	X			
	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?	X			
	Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?	X			
5	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
6	Were any issues noted by the laboratory upon receipt?		X		
7	Were sample preparation and analysis holding time requirements met?	X			
8	AIR ONLY: Were canisters received with an acceptable vacuum? Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Data Completeness					
9	Are results reported for all analytical methods requested?	X			
10	Are results reported for all samples submitted for analysis?	X			
11	Were the requested analytical methods used?	X			
12	Are results reported for all target analytes, but no additional analytes?	X			

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
13	Were soil/sediment results reported on a dry weight basis?	X			
14	If requested, were detected results below the reporting limit (i.e., "J" values) reported?			X	Not requested.
15	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sensitivity					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			
17	Were dilutions performed? If so, note sample(s) and parameter(s) affected and the dilution factor(s).	X			**SB-61** Metals: Mercury (5), Lead (10), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (10) **SB-62** Metals: Mercury (5), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-63** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-64** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-65** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Volatiles: Several (50) **SB-66** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Volatiles: Several (50) **SB-67** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2), Volatiles: Several (50) **SB-68** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-69** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (10), 4,4'-DDT (20) **SB-70** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-71** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-71B** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (10) **SB-72** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-73** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-74** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (2), 4,4'-DDT (2) **SB-75** Metals: Mercury (2), Pesticides: 4,4'-DDD (2), 4,4'-DDE (20), 4,4'-DDT (20), Volatiles: Several (50)
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Explanation not provided. Analytical samples are typically diluted when the concentration of one or more analytes in the undiluted sample exceeds the upper limit of the calibration cure or if matrix interference is present.
QC Results					

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
19	Were any target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		
22	Are there any potential false positive results based on questions 19 and/or 21? If concentrations of contaminants in associated samples are ≤10x the blank concentration for common laboratory contaminants and ≤5x the blank concentration for other contaminants, sample result is most likely a false positive. [2] Common blank contaminants: methylene chloride, acetone, 2-butanone, phthalates.		X		
23	Are LCS/LCSD recoveries within QC limits[3]? If no, list analytes affected, the LCS/LCSD recoveries and the affected samples.		X		**CF79107:** Volatiles – Water: Bromomethane (136) (not detected in soil samples for this project) **CF79126:** Volatiles – Soil (Low Level): Acetone (68), Bromomethane (135, 145), Carbon tetrachloride (137, 147), Chloromethane (139), Dibromochloromethane (133, 135), Dichlorodifluoromethane (177, 190), Trichlorofluoromethane (132), and Vinyl chloride (137, 144) (not detected in soil samples for this project) **CF79179:** Volatiles – Soil (Low Level): Acetone (68) (not detected in soil samples for this project) **CF79179 50X:** Volatiles – Soil (High Level): Acetone (36, 40), Chloroethane (33, 31), and Trichlorofluoromethane (49, 38) (not detected in soil samples for this project)
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits[3]? If no, list analytes affected, the RPDs and the affected samples.	X			

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
26	Are MS/MSD recoveries within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.			X	Not performed on project sample.
27	Are MS/MSD RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required, If no, list analytes affected, the RPDs and the sample that was spiked.			X	Not performed on project sample.
28	Are laboratory duplicate RPDs within QC limits[3]? NOTE: If not performed on a project sample, evaluation is not required. If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	Not performed on project sample.
29	Are field duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the associated samples. NOTE: Typical criteria[4] are RPD ≤50 for solid samples and RPD ≤30 for aqueous and air samples when results are >2x the reporting limit; otherwise these criteria are doubled. However, project-specific or regulatory-based criteria may supersede these criteria.	X			
30	ORGANIC ANALYSES ONLY: Are surrogate recoveries within QC limits[3]? If no, list samples, surrogate recoveries and analytes affected.	X			
Laboratory Comments					

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences)? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).	X			ETPH QC Batch 527688 (Samples: CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140): ----- The MS/MSD RPD exceeds the method criteria, therefore there may be variability in the reported result. (Ext. Petroleum H.C. (C9-C36)) Pesticide QC Batch 527921 (Samples: CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135): ----- The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (b-BHC, g-BHC) SVOA QC Batch 527686 (Samples: CF79125, CF79126, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138, CF79139, CF79140): ----- The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range. A slight low bias is possible. (Benzo(ghi)perylene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene) The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Pyrene) VOA VOC QC Batch 527792 (Samples: CF79123, CF79125, CF79127, CF79128, CF79129, CF79130, CF79131, CF79132, CF79133, CF79134, CF79135, CF79136, CF79137, CF79138): ----- QC Batch 527792H: ----- The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone, Chloroethane, Trichlorofluoromethane) QC Batch 527906 (Samples: CF79126): ----- The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane, Carbon tetrachloride, Chloromethane, Dibromochloromethane, Dichlorodifluoromethane, Trichlorofluoromethane, Vinyl chloride) 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. (Acetone) QC Batch 527906H: ----- 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. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, Naphthalene) 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. (1,2,3-Trichloropropane) QC Batch 527920 (Samples: CF79124): ----- The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane)
32	Were any other potential data quality issues identified? If yes, describe issues.		X		

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments[1]
Do the Data Make Sense?					
33	Do any results look questionable? If yes, ASK THE LAB!		X		
34	Has the EDD been compared with the lab report?			X	No EDD requested.

(1) Comments generally need to be addressed in the TRC deliverable presenting the laboratory data, but this will be dependent on project requirements.
(2) Check if local or regional criteria for blank assessments are available; these will supersede criteria in this checklist.
(3) Use QC limits in QAPP, if available. If not, use QC limits provided by laboratory in data package.
(4) EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Guidance/Procedures, April 22, 2013.

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EDD = Electronic Data Deliverable
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate
QAPP = Quality Assurance Project Plan
QC = Quality Control
RPD = Relative Percent Difference = |(A-B)/((A+B)/2)|
VOC = Volatile Organic Compounds

NOTE: After data tables are created, check that reporting limits are below the project action levels (e.g., screening criteria, remediation standards, etc.) and compare data with historical results, if applicable.

Additional Comments: