Team DTC

Task 210 – Subsurface Site Investigation
Marlborough Maintenance Facility

64 South Main Street

Marlborough, CT

July 2018

Prepared for:

Connecticut Department of Transportation

Division of Environmental Compliance

2800 Berlin Turnpike

Newington, Connecticut 06111

DTC Project Number 17-141-04E

ConnDOT Project Number 0078-0094

Assignment Number 218-5577

SIGNATURE PAGE

TASK 210 SUBSURFACE SITE INVESTIGATION

MARLBOROUGH MAINTENANCE FACILITY TANK REPLACEMENT

64 SOUTH MAIN STREET

MARLBOROUGH, CONNECTICUT

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1.0 INTRODUCTION

Diversified Technology Consultants, Inc. (DTC) was retained by the State of Connecticut Department of Transportation (ConnDOT) to conduct a Task 210 Subsurface Site Investigation (SSI) in support of ConnDOT Project No. 0078-0094, Marlborough Maintenance Facility Tank Replacement located at 64 South Main Street, Marlborough, Connecticut. This report provides a discussion of the local environment and receptors, the investigation rationale, a summary of the data obtained during the investigation, an interpretation of the results with respect to the appropriate regulatory criteria, and recommendations.

1.1 Background and Purpose

The project is located at 64 South Main Street, Marlborough, Connecticut. The project will involve the future removal of an existing jet hanger, 4,000-gallon diesel and 4,000-gallon gasoline underground storage tanks (USTs), dispenser island, and associated piping. The location and pertinent site features are depicted on Figures 1 through 3.

The purpose of the Task 210 SSI is to collect and review on-site soil data in order to evaluate potential subsurface contamination within the project area and to evaluate whether the proposed construction activities may require management of contaminated soil. The soil data will also be reviewed and compared to the CT DEEP UST closure regulations.

The potential exists for soil within the above-mentioned area in the project area to be impacted with extractable petroleum hydrocarbons (ETPH), polynuclear aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and lead. These constituents of concern (COCs) were selected for analysis as part of this Task 210 SSI because they are the suggested analytical requirements of petroleum releases established by Connecticut Department of Energy and Environmental Protection for UST closure.

1.2 Scope of Work

DTC completed this Task 210 SSI pursuant to our task assignment recommendation, dated May 17, 2018, which was approved by ConnDOT. DTC designed the Task 210 SSI activities based on a review of the project plans.

The scope of work for this Task 210 SSI included the following tasks:

- Pre-drilling activities, including: (1) marking proposed drilling locations, (2) contacting Call-Before-You-Dig to request mark outs of subsurface utilities, and (3) meeting on-site to discuss proposed drilling locations with current property owners/representatives;
- A Ground-Penetrating Radar subcontractor field located all identifiable underground structures and utilities within the project work area;
- Completion of 15 soil borings to a maximum depth of 10 feet below grade using a track-mounted Geoprobe direct-push rig;
- Recording lithology and field screening soil samples with a photoionization detector (PID);
- Collection and laboratory analysis of 20 soil samples for one or more of the following:
    - ETPH by Connecticut Department of Public Health (DPH) method;
    - PAHs by EPA Method 8270;
    - VOCs by EPA Method 8260/5035; and

- Total lead by EPA Method 6010B.

1.3 Previous Environmental Reports

Prior to initiation of this Task 210 SSI, DTC reviewed the ConnDOT "Scope for Marlborough Maintenance Facility Tank Replacement", dated March 8, 2018. The scope outlines tasks associated with the removal of two USTs and the fuel dispensers. The tanks will be replaced by two above ground storage tanks (ASTs) and new fuel dispensers at a different location on site. Previous environmental reports were not provided.

2.0 LOCAL ENVIRONMENT AND RECEPTORS

2.1 Surficial Geology

According to CT Environmental Conditions Online (CT ECO), surficial materials at the site are mapped as thin till and swamp, the thin till deposit is described as loose to moderately compact, generally sandy, and common stony.

During drilling, surficial materials were observed to consist of non-native material (fill) overlying a native deposit. The fill was observed to be a light to dark, fine to medium brown sand with traces of gravel. The underlying native till was observed to be a brown sand with silt, gravel, and cobbles. Boring logs are included as Appendix A.

2.2 Bedrock Geology

According to CT ECO, the site is underlain by Hebron Gneiss, which is described as interlayered dark-gray schist and greenish gray, fine to medium grained calc-silicate gneiss. Geoprobe refusal was not observed within the ten-foot-deep soil borings. Bedrock outcrops were not observed on site nor within the immediate vicinity.

2.3 Groundwater

According to CT ECO groundwater beneath the site and surrounding area has been classified by the DEEP as "GA" quality. Groundwater of this classification is defined by the DEEP as groundwater within the area of existing private water supply wells or an area with the potential to provide water to public or private water supply wells. The DEEP presumes that groundwater in such an area is, at a minimum, suitable for drinking or other domestic uses without treatment.

During this Task 210 SSI, groundwater was encountered at approximately five to seven feet below grade. Based on the topography and location of the on-site wetlands, groundwater is inferred to flow in a southwesterly direction. The presence of subsurface structures, impervious surfaces, and the character of the subsurface stratigraphy may also locally influence the direction of groundwater movement.

2.4 Surface Water

The site is located within the Salmon River Regional Basin. An unnamed wetland, stream, and pond are located directly to the west of the project. According to CT ECO, the stream and pond are classified as a "A" surface water body. The Class "A" designation indicates an inland water body known or presumed to meet drinking water quality criteria, fish and wildlife habitat, recreational use, industrial and agricultural supply, and other legitimate uses including navigation.

3.0 FIELD INVESTIGATION AND SAMPLING METHODS

This Task 210 SSI included the advancement of 15 borings, and collection and laboratory analysis of 20 soil samples.

DTC subcontracted with Ground H2O of Newington, Connecticut to advance the borings using a Geoprobe direct-push rig.

The soil borings locations are depicted on Figures 2 and 3. Table 1 provides a summary of the sampling rationale and the laboratory analyses requested for each soil sample.

3.1 Soil Boring Advancement and Sampling

Soil borings B-1 through B-15 were advanced to depths between 5 to 10 feet below grade on June 29, 2018. Soil samples were obtained continuously during advancement of the borings using a stainless-steel, five-foot long sampling device, lined with a dedicated acetate sample tube. The Acetate liner containing the sample was removed from the sampling tube and opened on its horizontal axis to allow inspection, description of lithology, and sampling of the material.

A representative portion of each 5-foot long soil core was immediately collected by the DTC field scientist and placed within a clean polyethylene zip-lock bag for field screening with a PID. The PID was equipped with a 10.6 eV bulb and was calibrated to isobutylene standard gas (100 parts per million). The results of the PID screening are provided on the boring logs, which are included as Appendix A.

Each soil sample was collected at approximately 2.5-foot intervals from each boring and placed in laboratory prepared bottleware. Soil samples were selected for laboratory analysis based on the current/historic use of the site, visual appearance, field screening results, and the anticipated construction activities. The samples were placed on ice, tracked under chain of custody and submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, CT, which is a State of Connecticut Department of Public Health certified environmental testing laboratory.

4.0 REGULATORY CRITERIA

The soil analytical results were compared to the numeric criteria listed in the Connecticut Remediation Standard Regulations (RSRs), Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies (RCSA), revised June 27, 2013.

The RSRs were developed by the DEEP to define the remediation performance standards for soil and groundwater, specific numeric cleanup criteria, and processes for establishing alternative site-specific standards. The RSRs apply specifically to sites at which remedial actions are required by the DEEP under Chapters 445, 446k, or Section 22a-208a(c)(2) of the CGS such as under an administrative order, subsequent to a transfer of an "Establishment" under CGS Section 22a-134a, and to sites that are enrolled in a Voluntary Remediation Program (VRP) under CGS Sections 22a-133x or 22a-133y.

The remediation criteria are based on the property usage (industrial/commercial or residential) and the DEEP groundwater quality designation ("GA" or "GB"). Based on our review of the state groundwater quality maps, the site is located in an area designated as "GA" quality groundwater.

The RSRs do not provide soil and groundwater criteria for all substances detected at the site. In accordance with Sections 22a-133k-2(b)(5), -(2)(e)(6), -3(b)(3)(B), & -3(c)(4)(B), alternative criteria may be developed and used for such Additional Polluting Substances (APS) with the approval of DEEP. The alternative criteria for the Additional Polluting Substances detected at the site that are listed in the data summary tables of this report were obtained from Table 10: DEEP Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests, dated December 10, 2015

DTC used the numeric criteria in the RSRs as guidelines to evaluate the data and to make conclusions regarding concentrations of regulated compounds detected in soil. The following summarizes the soil criteria utilized during this Task 210 SSI.

4.1 Soil Criteria

The RSRs contain two sets of soil criteria; the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC), as summarized below.

Direct Exposure Criteria

The DEC are designed to protect human health from risks associated with exposure to pollutants in contaminated soil within 15 feet of the ground surface. Different DEC apply to a property depending on land use, either "residential" or "industrial/commercial", as defined by the RSRs.

The less stringent Industrial/Commercial (IDEC) cannot be used unless an Environmental Land Use Restriction (ELUR) has been recorded on the property deed restricting the site to industrial/commercial uses. An ELUR has not been recorded, therefore, the soil analytical results were compared to the Residential DEC (RDEC).

Pollutant Mobility Criteria

The PMC are designed to protect groundwater quality by reducing or eliminating the potential for migration of pollutants to the groundwater from contaminated soil. Different PMC apply to a property depending on the groundwater quality at the site, as designated by DEEP. In a "GA" groundwater classification area the PMC apply to soil located above the seasonal low water table and in a "GB" groundwater classification area the PMC apply to soil located above the seasonal high-water table. The PMC do not apply to "environmentally isolated" soil (i.e. soil beneath a

building or a "cap"). Since the site is located in a "GA" groundwater quality area, the GA PMC will be used for comparison to the analytical results.

The depth to water at the site was observed to be between approximately 5 to 7 feet below grade. These observations were made during advancement of the soil borings.

Note, the RSRs provide two exceptions from the PMC, one for polluted fill material and another to polluted soil at a release area.

In order to qualify for the polluted fill material exception, the following must be met: 1) the fill is polluted only with coal ash, wood ash, coal fragments, and/or asphalt paving fragments, 2) the fill is not polluted with VOCs at concentrations exceeding the applicable PMC, 3) the soil complies with the DEC, 4) substances in the fill will not affect existing or potential drinking water supplies, 5) public water is available within 200 feet of the parcel, and 6) the placement of the polluted fill was not prohibited by law at the time it was placed.

In order for a substance, other than a VOC, to qualify for the polluted soil exception in a "GB" area, the following must be met: 1) the release area a) must be located in an area in which at least 80 percent of the release area has been subject to infiltration, and not obstructed by anthropogenic features, for a minimum of five years, or b) has been determined by DEEP to have been subject to sufficient infiltration of precipitation such that the concentration of the compounds of concern and extent of the groundwater plume will not increase if any obstruction to infiltration is removed in the future, 2) the analytical results of four consecutive quarterly samples of groundwater are all less than the SWPC, and 3) the groundwater sampling locations are representative of the groundwater plume and the extent of the plume exceeding the applicable remedial criteria is not increasing over time.

5.0 SUMMARY AND EVALUATION OF ANALYTICAL DATA

5.1 Soil Sample Analytical Results

Soil analytical results for this Task 210 are summarized in Table 2, along with the regulatory criteria, and are discussed below. The soil analytical laboratory reports are included in Appendix B.

ETPH

A total of 20 soil samples were analyzed for ETPH. ETPH was detected soil sample B-13 (5-7.5') at a concentration of 360 mg/kg, which is below RDEC and GA PMC of 500 mg/kg. ETPH was not detected above the method detection limits in the remaining soil samples obtained during this Task 210 SSI.

VOCs

A total of 20 soil samples were analyzed for VOCs by EPA Method 8260. As summarized in Table 2, various gasoline related compounds were detected in soil samples B-11 (5-7.5'), B-12 (2.5-5'), and B-12 (5-7.5'), but the concentrations were below the RDEC and GA PMC. Low level methyl ethyl ketone (MEK) was detected in soil sample B-12 (2.5-5') at a concentration of 0.033 mg/kg, which well below the RDEC of 500 mg/kg and the GA PMC of 2 mg/kg. MEK is likely present as an oxygenate within the gasoline. VOCs were not detected above the method detection limits in the remaining samples.

PAHs

A total of 20 soil samples were analyzed for PAHs by EPA Method 8270. Multiple PAH compounds were detected above the method detection limits in soil sample B-13 (5-7.5'), but at concentrations below their respective RSR criteria. PAHs were not detected above method detection limits in the remaining samples.

Note: compounds benzo(a)pyrene and benzo(b)fluoranthene, detected in soil sample B-13 (5-7.5') were both detected at 1 mg/kg, which is equal to the RDEC and GA PMC criteria.

Metals

A total of 20 soil samples were analyzed for total lead. As summarized in Table 2, lead was detected in all 20 soil samples, but at concentration below the RDEC. The lead concentrations were indicative of naturally occurring concentrations.

6.0 DATA QUALITY ANALYSIS / DATA USABILITY EVALUATION

During the investigation conducted by DTC, sufficient QA/QC procedures were followed to conduct a Data Quality Assessment (DQA) and Data Usability Evaluation (DUE), as required by the May 2009 DEEP Laboratory QA/QC DQA & DUE Guidance Document. The following provides a discussion of the DQA/DUE conducted for the data obtained by DTC.

Based on the information provided in this section, it is DTC's opinion that the Site-Specific Data Quality Objectives (DQOs) have been met.

6.1 Data Quality Objectives

DQOs for this environmental investigation were developed to ensure that a sufficient quantity and quality of analytical data were obtained from each Recognized Environmental Condition (REC) / Area of Environmental Concern (AOEC) in order to:

1. Make a determination if a release has taken place at an REC/AOEC; and
2. Make a determination whether contamination is present in the environment at concentrations exceeding the applicable RSR criteria.

The soil samples obtained by DTC during this investigation were analyzed per the RCP methods to ensure the highest quality data.

Only a single COC needs to be detected above site-specific background concentrations within an REC/AOEC in order to determine that a release has occurred. Typically, analytical data obtained for this purpose does not require an exhaustive QA/QC review if a COC is detected above background levels; the environmental professional could simply conclude that a release has occurred. DTC performed a careful DQA/DUE for analytical data where COCs were not detected to support the conclusion that a release has or has not occurred at a REC.

When COCs are detected at concentrations well above the RSR criteria, an exhaustive QA/QC review is not necessary. The environmental professional could simply conclude that the contaminants are present in the environment at concentrations greater than the RSRs. For this investigation, DTC performed a careful DQA/DUE for analytical data where COCs were detected at concentrations below the RSR criteria in order to show that the data are adequate to conclude that the COCs are, in fact, present at concentrations less than the criteria.

6.2 Soil Analytical Obtained by DTC

The soil analytical report Case Narratives indicated that there were a number of QA/QC non-conformities for both COCs and non-COCs. In the Case Narratives, the lab indicated that the non-conformities did not affect the usability of the data due to the evaluation of the QC data using multiple lines of evidence. The QA/QC Certification Forms included with each laboratory report indicated that all of the data meet the requirements for Reasonable Confidence.

- **For laboratory report GCA81518 (dated 7/5/18)**. The ETPH Narration indicates all QA/QC performance criteria were achieved.

- The Sample/Duplicate RPD exceeded the method criteria, therefore there may be variability in the reported lead result. However, concentrations were well below criteria. As such, the data can be relied upon.
- The PAH MS/MSD RPD exceeded the method criteria for one or more surrogates, therefore there may be variability in the reported nitrobenzene results. Nitrobenzene is not a compound of concern at the site. Therefore, the data can be relied upon.
- VOCs in the LCS/LSCD and MS/MSD recovery indicated a low bias for several VOC compounds in several samples. However, these compounds are not compounds of concern and were not detected above laboratory reporting limits. As such, the data can be relied upon.

There were no other significant QA/QC non-conformances that would affect the usability of the data. See laboratory reports for details.

6.3 Field QA/QC Sample Results

One soil trip blank sample was analyzed for full VOCs to evaluate the potential for cross-contamination of the samples during transport. The trip blank sample accompanied the sample jars from the laboratory, to the field, and back to the laboratory. VOCs were not detected in the trip blank sample.

7.0 POTENTIAL SOURCES OF CONTAMINATION AND IDENTIFIED PRELIMINARY AREAS OF ENVIRONMENTAL CONCERN

The following provides a summary of the potential sources of soil contamination identified during completion of this Task 210 SSI and the identification of preliminary Low-level Areas of Environmental Concern (LLAOEC) within the project area. The identified preliminary LLAOEC is depicted in Figures 2 and 3.

LLAOEC "A" – Low Level Soil in the Vicinity of Borings B-11, B-12, and B-13

Low-level ETPH, VOCs, and PAHs (at concentrations below applicable RSR criteria) were detected in soil samples obtained from borings B-11, B-12, and B-13 at depths of 2.5 to 7.5 feet below grade. These borings were located along the western side of the concrete pad associated with the USTs and fuel dispenser.

Any excavated soil from within the UST, fuel dispenser, and associated piping from this area should be handled as controlled material.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the analytical data collected by DTC, one preliminary LLAOEC was identified within the project area, as summarized below:

- Soil within LLAOEC "A" contains low-level ETPH, VOCs, and PAHs.

Soil borings within the LLAOEC are located on the western side of the concrete pad associated with the USTs and fuel dispenser. The location of these borings are in an inferred down-gradient location of the USTs and fill pumps. There is a possibility that the USTs, piping and/or fill pumps may be the source of impact, which will need to be evaluated during the proposed removal.

The analytical for the soil borings installed around the USTs and fuel dispenser indicate that closure of the USTs is likely achievable within the limits of the concrete pad. However, final sidewall and bottom samples will need to be collected and analyzed after removal of the USTs, fuel dispenser, and associated piping before final closure can be achieved.

Based on the results of this Task 210 SSI, DTC recommends that a Task 310 – Plans, Specifications, and Estimates be assigned to prepare plans and specifications for the proper management and disposal of contaminated materials that may be excavated, handled, transported, or disposed during construction activities and for the establishment of appropriate worker health and safety protocols.

9.0 LIMITATIONS

All work products and reports provided in connection with the performance of this Task 210 SSI are subject to the following limitations.

Where visual observations have been provided in this report, they represent conditions at the time of observation and may not be indicative of past or future conditions.

DTC's work presented herein was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area. DTC observed a degree of care and skill generally exercised by other consultants under similar circumstances and conditions. DTC's findings and conclusions must be considered not as scientific certainties, but as our professional opinion concerning the significance of the limited data gathered during the course of the investigation. Specifically, DTC does not and cannot represent that the site contains no hazardous material, oil, or other latent condition beyond that observed by DTC during the investigation.

In completing this investigation, DTC has relied upon information and/or data provided by other environmental consultants, drillers, analytical laboratories, municipal agencies, and State agencies. DTC provides no warranty regarding the accuracy of the data provided by these parties.

No specific attempt was made to check the compliance of the owners/operators of the site with Federal, State, or local laws and regulations, environmental or otherwise.

This report was prepared for the exclusive use of the ConnDOT. No other party may rely on this report without written consent of these parties.

If conditions or activities on or near the site change, the conclusions in this report may no longer be valid. DTC should be made aware of such changes so that the conclusions presented in this report may be modified (if necessary).

The conclusions and recommendations contained in this report are based upon data obtained from a limited number of soil samples obtained from locations selected by DTC and others. The nature and extent of variations between these sample locations may not be evident from the data obtained.

10.0 REFERENCES

1. "Scope for Marlborough Maintenance Facility Tank Replacement", CTDOT, dated March 8, 2018.

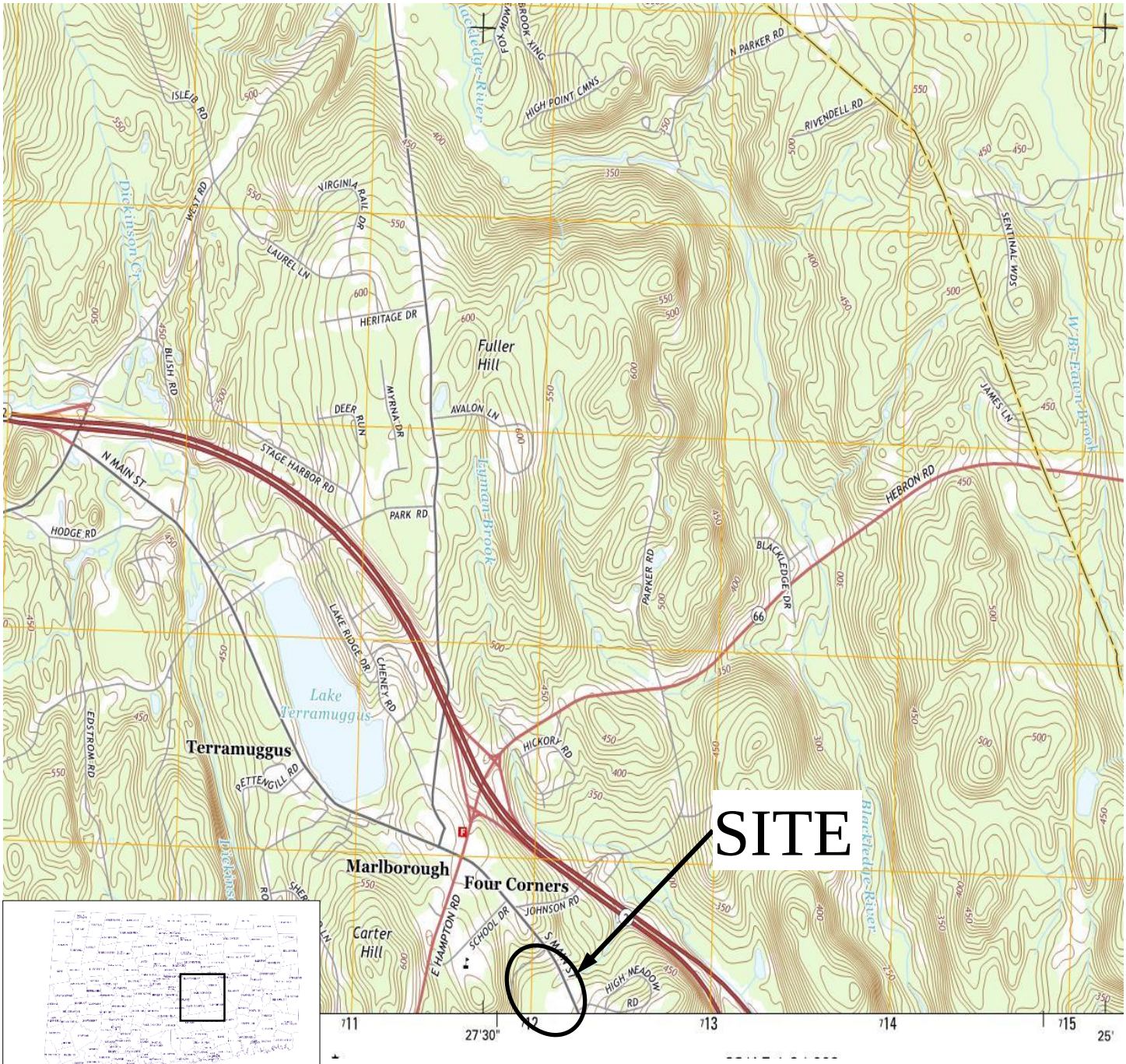
2. "Remediation Standard Regulations", DEEP, Sections 22a-133k-1 through –3 of the Regulations of Connecticut State Agencies, effective June 27, 2013.

3. Table 10: CT DEEP Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests, dated December 10, 2015.

4. "Site Characterization Guidance Document", DEEP, dated September 2007 (revised December 2010).

5. "Laboratory Quality Assurance & Quality Control, Data Quality Assessment & Data Usability Evaluation Guidance Document", DEEP, dated May 2009

FIGURES



USGS Quadrangle:, Waterbury, CT

Site Location Map

Task 210 SSI
64 South Main Street
Marlborough, Connecticut

DTC Project No. 17-141-04E

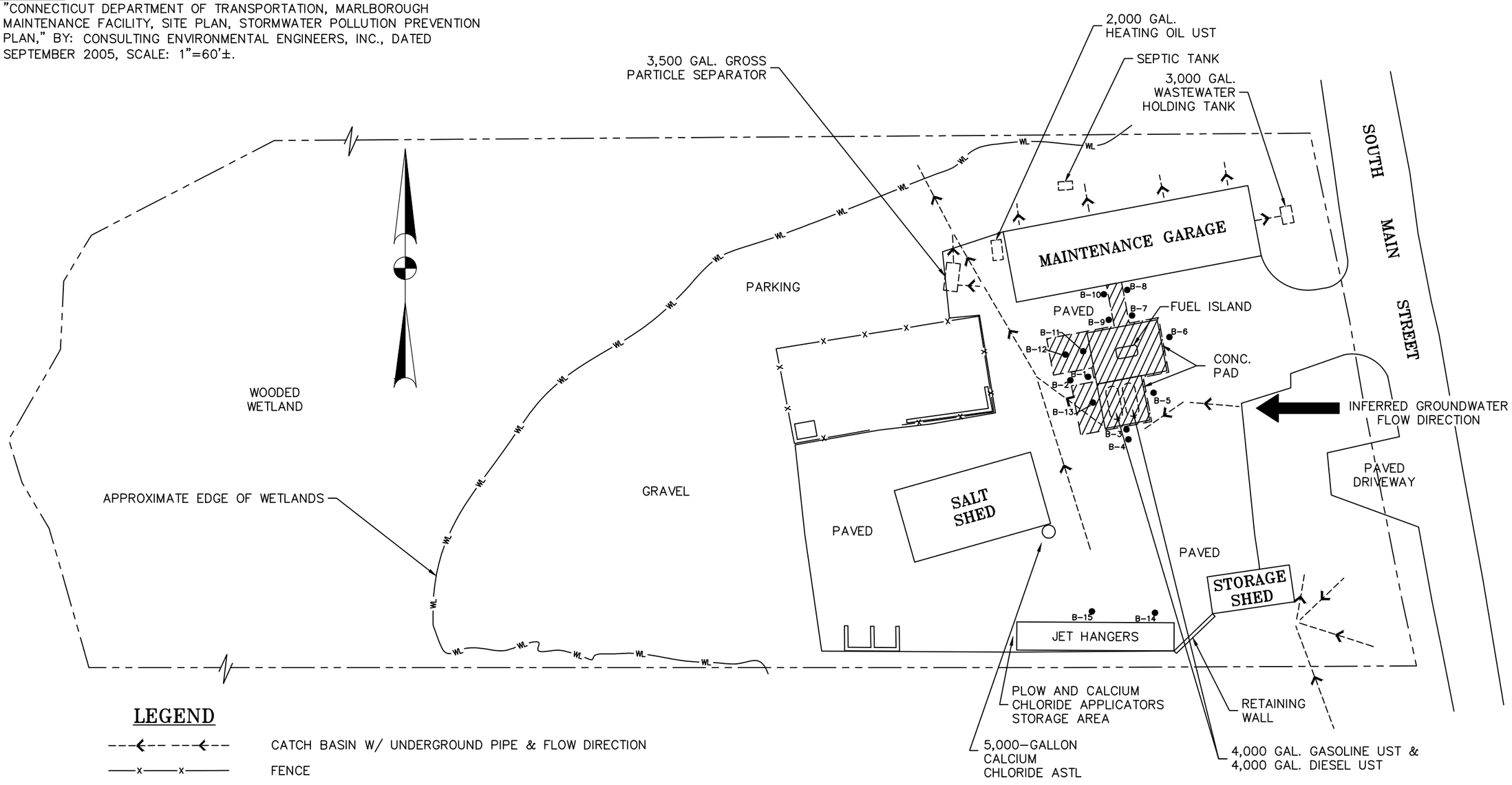
Figure 1

ENGINEER
CONSULT
MANAGE

DELIVERING YOUR PROJECTS WITH INNOVATION & INTEGRITY

DTC, Inc.
2321 Whitney Avenue, Suite 301 Hamden CT 06518
Andover, MA

REFERENCE:
1. "CONNECTICUT DEPARTMENT OF TRANSPORTATION, MARLBOROUGH MAINTENANCE FACILITY, SITE PLAN, STORMWATER POLLUTION PREVENTION PLAN," BY: CONSULTING ENVIRONMENTAL ENGINEERS, INC., DATED SEPTEMBER 2005, SCALE: 1"=60'±.



LEGEND

- CATCH BASIN W/ UNDERGROUND PIPE & FLOW DIRECTION
- FENCE
- WOODED AREA
- STREAM OR EDGE OF WATER
- APPROXIMATE PROPERTY LINE
- MH — MANHOLE
- DTC SOIL BORING LOCATIONS
- LLAOEC "A"

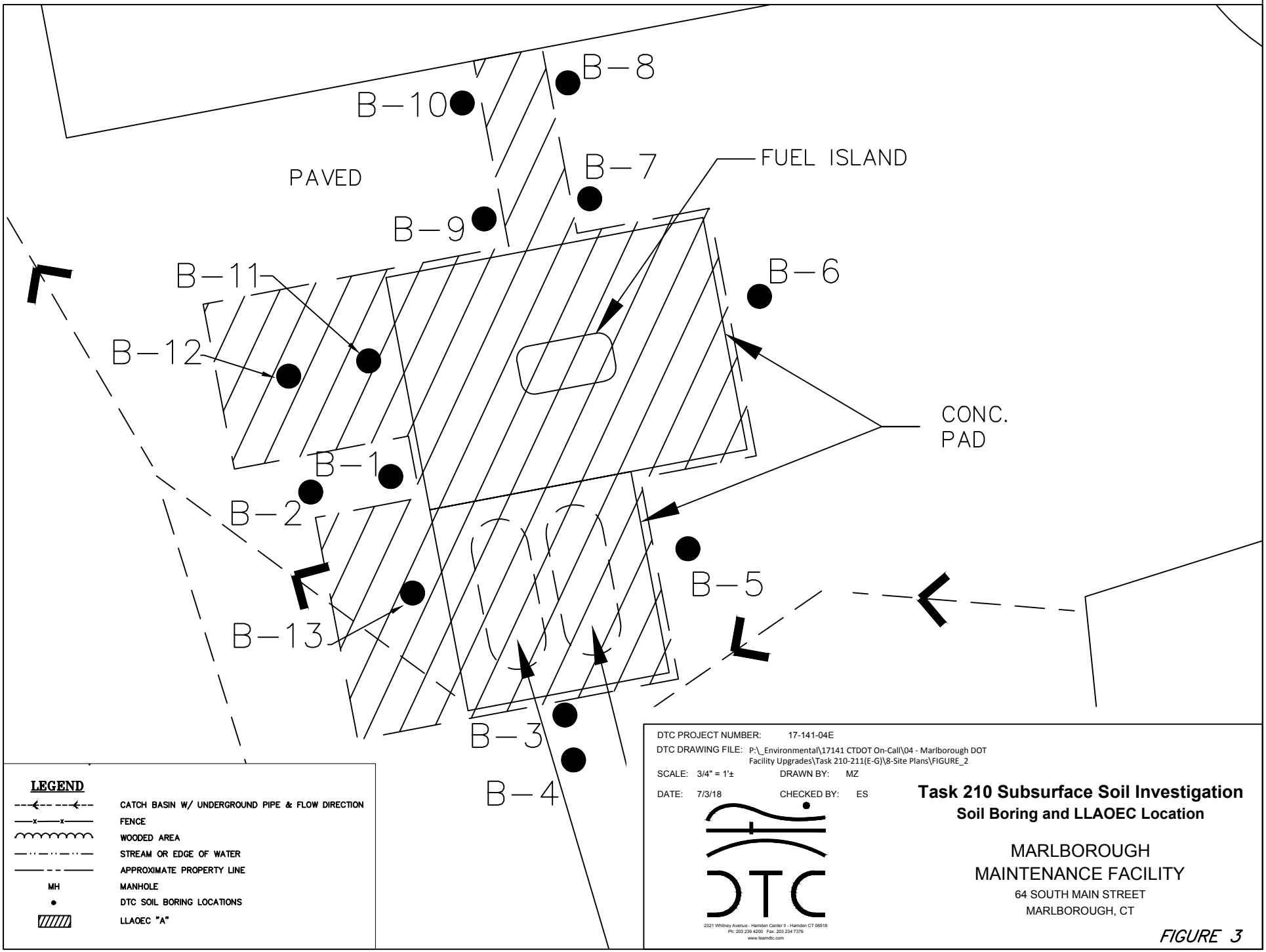
DTC PROJECT NUMBER: 17-141-04E
DTC DRAWING FILE: P:_Environmental\17141 CTDOT On-Call\04 - Marlborough DOT Facility Upgrades\Task 210-211(E-G)\8-Site Plans\FIGURE_2
SCALE: 1" = 60'± DRAWN BY: MZ
DATE: 7/3/18 CHECKED BY: ES

Task 210 Subsurface Soil Investigation
Soil Boring and LLAOEC Location

MARLBOROUGH
MAINTENANCE FACILITY
64 SOUTH MAIN STREET
MARLBOROUGH, CT

DTC
2321 Whitney Avenue - Hamden Center II - Hamden CT 06518
Ph: 203 239 4300 Fax: 203 234 7376
www.loamdtc.com

FIGURE 2



LEGEND

- CATCH BASIN W/ UNDERGROUND PIPE & FLOW DIRECTION
- FENCE
- WOODED AREA
- STREAM OR EDGE OF WATER
- APPROXIMATE PROPERTY LINE
- MH — MANHOLE
- DTC SOIL BORING LOCATIONS
- LLAOEC "A"

DTC PROJECT NUMBER: 17-141-04E

DTC DRAWING FILE: P:_Environmental\17141 CTDOT On-Call\04 - Marlborough DOT Facility Upgrades\Task 210-211(E-G)\8-Site Plans\FIGURE_2

SCALE: 3/4" = 1'± DRAWN BY: MZ

DATE: 7/3/18 CHECKED BY: ES

2321 Whitney Avenue - Hamden Center II - Hamden CT 06518
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www.teamdtc.com

Task 210 Subsurface Soil Investigation

Soil Boring and LLAOEC Location

MARLBOROUGH
MAINTENANCE FACILITY

64 SOUTH MAIN STREET
MARLBOROUGH, CT

FIGURE 3

TABLES

Table 1

Soil Sample Rationale and Analyses

Task 210 - Subsurface Site Investigation
Marlborough Maintenance Facility Tank Replacement
Marlborough, Connecticut

Sample ID	Location Rationale	Depth	Proposed Analytical			
			ETPH	PAHs	VOCs	Lead
1) 4,000-Gallon Gasoline and 4,000-Gallon Diesel USTs, Fuel Island and Assessories						
B-1	Soil located within limits of future excavation activities.	2.5-5'	1	1	1	1
B-2		2.5-5' 5-7.5"	1 1	1 1	1 1	1 1
B-3		No Sample	0	0	0	0
B-4		5-7.5'	1	1	1	1
B-5		5-7.5' 7.5-10'	1 1	1 1	1 1	1 1
B-6		0-2.5' 5-7.5'	1 1	1 1	1 1	1 1
B-7		2.5-5' 5-7.5"	1 1	1 1	1 1	1 1
B-8		2.5-5' 5-7.5"	1 1	1 1	1 1	1 1
B-9		2.5-5'	1	1	1	1
B-10		No Sample	0	0	0	0
B-11		5-7.5'	1	1	1	1
B-12		2.5-5' 5-7.5"	1 1	1 1	1 1	1 1
B-13		2.5-5' 5-7.5"	1 1	1 1	1 1	1 1
2) Proposed Area For New ASTs, Fuel Island, and Assessories						
B-14	Soil located within limits of future excavation activities.	0-2.5'	1	1	1	1
B-15		0-2.5'	1	1	1	1
Trip Blank					1	
Sub Totals			20	20	21	20

TABLE 2
Soil Analytical Results
Task 210 SSI
Marlborough Maintenance Facility
64 South Main Street
Marlborough, Connecticut

Compound	RSR Criteria			B-1 2.5-5'	B-2 2.5-5'	B-2 5-7.5'	B-4 5-7.5'	B-5 5-7.5'	B-5 7.5-10'	B-6 0-2.5'	B-6 5-7.5'	B-7 2.5-5'	B-7 5-7.5'
	RDEC	IDEC	GA PMC	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18
Petroleum Hydrocarbons (mg/Kg)													
ETPH	500	2,500	500	ND<52	ND<59	ND<54	ND<54	ND<54	ND<55	ND<55	ND<55	ND<57	ND<56
Volatile Organic Compounds (mg/Kg)													
1,2,4-Trimethylbenzene	*500*	*1,000*	*2.8*	ND<0.006	ND<0.0038	ND<0.0034	ND<0.0029	ND<0.0054	ND<0.0058	ND<0.0071	ND<0.0042	ND<0.0035	ND<0.0064
1,3,5-Trimethylbenzene	*500*	*1,000*	*2.8*	ND<0.006	ND<0.0038	ND<0.0034	ND<0.0029	ND<0.0054	ND<0.0058	ND<0.0071	ND<0.0042	ND<0.0035	ND<0.0064
Ethylbenzene	500	1,000	10.1	ND<0.006	ND<0.0038	ND<0.0034	ND<0.0029	ND<0.0054	ND<0.0058	ND<0.0071	ND<0.0042	ND<0.0035	ND<0.0064
Methyl Ethyl Ketone	500	1,000	2	ND<0.036	ND<0.023	ND<0.02	ND<0.017	ND<0.032	ND<0.035	ND<0.042	ND<0.025	ND<0.021	ND<0.039
Naphthalene	1,000	2,500	5.6	ND<0.006	ND<0.0038	ND<0.0034	ND<0.0029	ND<0.0054	ND<0.0058	ND<0.0071	ND<0.0042	ND<0.0035	ND<0.0064
n-Propylbenzene	*500*	*1,000*	*1.0*	ND<0.006	ND<0.0038	ND<0.0034	ND<0.0029	ND<0.0054	ND<0.0058	ND<0.0071	ND<0.0042	ND<0.0035	ND<0.0064
p-Isopropytoulene	*500*	*1,000*	*0.50*	ND<0.006	ND<0.0038	ND<0.0034	ND<0.0029	ND<0.0054	ND<0.0058	ND<0.0071	ND<0.0042	ND<0.0035	ND<0.0064
Total Xylene	500	1,000	19.5	ND<0.006	ND<0.0038	ND<0.0034	ND<0.0029	ND<0.0054	ND<0.0058	ND<0.0071	ND<0.0042	ND<0.0035	ND<0.0064
Polynuclear Aromatic Hydrocarbons (mg/Kg)													
Acenaphthene	*1,000*	*2,500*	*8.4*	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Acenaphthylene	1,000	2,500	8.4	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Anthracene	1,000	2,500	40	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Benzo(a)anthracene	1	7.8	1	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Benzo(a)pyrene	1	1	1	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Benzo(b)fluoranthene	1	7.8	1	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Benzo(g,h,i)perylene	*8.4*	*78*	*1*	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Benzo(k)fluoranthene	8.4	78	1	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Chrysene	*84*	*780*	*1*	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Dibenz(a,h)anthracene	*1*	*1*	*1*	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Fluoranthene	1,000	2,500	5.6	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Flourene	1,000	2,500	5.6	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Indeno(1,2,3-cd)pyrene	*1*	*7.8*	*1*	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
2-Methylnapthalene	*270*	*1,000*	*0.56*	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Naphthalene	1,000	2,500	5.6	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Phenanthrene	1,000	2,500	4	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Pyrene	1,000	2,500	4	ND<0.25	ND<0.28	ND<0.25	ND<0.26	ND<0.25	ND<0.25	ND<0.25	ND<0.26	ND<0.27	ND<0.26
Metals (mg/Kg)													
Lead	400	1,000	0.015	2.3	3.81	1.38	1.79	1.32	1.51	1.87	1.19	9.32	14.4
% Solids	NA	NA	NE	94	83	90	90	90	89	90	88	87	87

Notes:
Only parameters detected are shown
Bolded and Shaded concentrations exceed the RDEC
Bolded and underlined concentrations exceed the GB PMC
ND = Not Detected at the indicated detection limit
NE = None Established
NA = Not Analyzed or Not Applicable
RSR = Remediation Standard Regulations
RDEC = Residential Direct Exposure Criteria
PMC = Pollutant Mobility Criteria
Italicized compounds and criteria are based on Table 10: DEEP Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests
ETPH = Extractable Total Petroleum Hydrocarbons

TABLE 2
Soil Analytical Results
Task 210 SSI
Marlborough Maintenance Facility
64 South Main Street
Marlborough, Connecticut

Compound	RSR Criteria			B-8 2.5-5'	B-8 5-7.5'	B-9 2.5-5'	B-11 5-7.5'	B-12 2.5-5'	B-12 5-7.5'	B-13 2.5-5'	B-13 5-7.5'	B-14 0-2.5'	B-15 0-2.5'	TRIP BLANK
	RDEC	IDEC	GA PMC	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18	6/29/18
Petroleum Hydrocarbons (mg/Kg)														NA
ETPH	500	2,500	500	ND<56	ND<57	ND<64	ND<65	ND<56	ND<59	ND<58	360	ND<56	ND<55	
Volatile Organic Compounds (mg/Kg)														
1,2,4-Trimethylbenzene	*500*	*1,000*	*2.8*	ND<0.0036	ND<0.0062	ND<0.0058	0.089	0.6	ND<0.32	ND<0.0035	ND<0.0041	ND<0.0036	ND<0.004	ND<0.005
1,3,5-Trimethylbenzene	*500*	*1,000*	*2.8*	ND<0.0036	ND<0.0062	ND<0.0058	0.023	0.21	ND<0.32	ND<0.0035	ND<0.0041	ND<0.0036	ND<0.004	ND<0.005
Ethylbenzene	500	1,000	10.1	ND<0.0036	ND<0.0062	ND<0.0058	0.0065	0.0077	0.045	ND<0.0035	ND<0.0041	ND<0.0036	ND<0.004	ND<0.005
Methyl Ethyl Ketone	500	1,000	2	ND<0.022	ND<0.037	ND<0.035	ND<0.035	0.033	ND<0.057	ND<0.021	ND<0.025	ND<0.021	ND<0.024	ND<0.03
Naphthalene	1,000	2,500	5.6	ND<0.0036	ND<0.0062	ND<0.0058	0.02	0.21	ND<0.32	ND<0.0035	ND<0.0041	ND<0.0036	ND<0.004	ND<0.005
n-Propylbenzene	*500*	*1,000*	*1.0*	ND<0.0036	ND<0.0062	ND<0.0058	0.011	ND<0.35	ND<0.32	ND<0.0035	ND<0.0041	ND<0.0036	ND<0.004	ND<0.005
p-Isopropytoulene	*500*	*1,000*	*0.50*	ND<0.0036	ND<0.0062	ND<0.0058	0.0083	ND<0.35	ND<0.32	ND<0.0035	ND<0.0041	ND<0.0036	ND<0.004	ND<0.005
Total Xylene	500	1,000	19.5	ND<0.0036	ND<0.0062	ND<0.0058	0.055	0.2975	0.39	ND<0.0035	ND<0.0041	ND<0.0036	ND<0.004	ND<0.005
Polynuclear Aromatic Hydrocarbons (mg/Kg)														NA
Acenaphthene	*1,000*	*2,500*	*8.4*	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	ND<0.26	ND<0.26	ND<0.26	
Acenaphthylene	1,000	2,500	8.4	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	ND<0.26	ND<0.26	ND<0.26	
Anthracene	1,000	2,500	40	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	0.28	ND<0.26	ND<0.26	
Benzo(a)anthracene	1	7.8	1	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	0.89	ND<0.26	ND<0.26	
Benzo(a)pyrene	1	1	1	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	1	ND<0.26	ND<0.26	
Benzo(b)fluoranthene	1	7.8	1	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	1	ND<0.26	ND<0.26	
Benzo(g,h,i)perylene	*8.4*	*78*	*1*	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	0.57	ND<0.26	ND<0.26	
Benzo(k)fluoranthene	8.4	78	1	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	0.61	ND<0.26	ND<0.26	
Chrysene	*84*	*780*	*1*	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	0.79	ND<0.26	ND<0.26	
Dibenz(a,h)anthracene	*1*	*1*	*1*	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	ND<0.26	ND<0.26	ND<0.26	
Fluoranthene	1,000	2,500	5.6	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	1.80	ND<0.26	ND<0.26	
Flourene	1,000	2,500	5.6	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	ND<0.26	ND<0.26	ND<0.26	
Indeno(1,2,3-cd)pyrene	*1*	*7.8*	*1*	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	0.62	ND<0.26	ND<0.26	
2-Methylnapthalene	*270*	*1,000*	*0.56*	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	ND<0.26	ND<0.26	ND<0.26	
Naphthalene	1,000	2,500	5.6	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	ND<0.26	ND<0.26	ND<0.26	
Phenanthrene	1,000	2,500	4	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	0.88	ND<0.26	ND<0.26	
Pyrene	1,000	2,500	4	ND<0.26	ND<0.27	ND<0.3	ND<0.3	ND<0.26	ND<0.28	ND<0.27	1.60	ND<0.26	ND<0.26	
Metals (mg/Kg)														NA
Lead	400	1,000	0.015	2.34	2	9.96	4.74	7.49	3.63	8.99	5.10	5.58	4.36	
% Solids	NA	NA	NE	88	86	77	77	87	82	84	88	88	90	NA

Notes:
Only parameters detected are shown
Bolded and Shaded concentrations exceed the RDEC
Bolded and underlined concentrations exceed the GB PMC
ND = Not Detected at the indicated detection limit
NE = None Established
NA = Not Analyzed or Not Applicable
RSR = Remediation Standard Regulations
RDEC = Residential Direct Exposure Criteria
PMC = Pollutant Mobility Criteria
Italicized compounds and criteria are based on Table 10: DEEP Recommended Criteria Values for Common Additional Polluting Substances and Alternative Criteria Requests
ETPH = Extractable Total Petroleum Hydrocarbons

APPENDIX A

Soil Boring Logs

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log

Sheet 1 of 1

Date started: 6-29-2018

Date Completed: 6-29-2018

BORING No. B-1

Project: DOT Marlborough Facility

Location: 64 South Main Street, Marlborough, CT

Method of investigation: 2" Direct Push Tooling

Project No.: 17-141-04E

Drilling Co.: Ground H2O

Driller: Marques

Drill Rig: AMS Power Probe 9520VTR

Weather: Clear, 85°F

P. Manager: Scott Feulner

Geologist: Dave Seitlinger

D. Helper:

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	36	4" Asphalt		Encountered Groundwater at 4ft
				12" P-Gravel and SAND fill	0.0	
	2	2.5'-5'		16" coarse gravel	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

P. Manager: Scott Feulner

Subsurface Log

Sheet 1 of 1

Date started: 6-29-2018

Date Completed: 6-29-2018

BORING No. **B-2**

Project: DOT Marlborough Facility

Location: 64 South Main Street, Marlborough, CT

Method of investigation: 2" Direct Push Tooling

Drilling Co.: Ground H2O

Driller: Marques

Drill Rig: AMS Power Probe 9520VTR

Weather: Clear, 85°F

Geologist: Dave Seitlinger

D. Helper:

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	40	4" Asphalt		Encountered Groundwater at 4ft
				12" brown SAND fill	0.0	
	2	2.5'-5'		24" dark brown/ gray SILT (Organic odor)	0.0	
5-10	3	5'-7.5'	48	12" dark brown/ dark gray SAND and SILT	0.0	
	4	7.5'-10'		36" tan/ gray SILT (Organic odor)	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log	Sheet 1 of 1	*Date started:* 6-29-2018 *Date Completed:* 6-29-2018	**BORING No. B-3**
Project: DOT Marlborough Facility ***Location:*** 64 South Main Street, Marlborough, CT			***Method of investigation:*** 2" Direct Push Tooling
Drilling Co.: Ground H2O ***Geologist:*** Dave Seitlinger		***Driller:*** Marques ***D. Helper:***	***Drill Rig:*** AMS Power Probe 9520VTR ***Weather:*** Clear, 85°F

Depth (ft.)	No.	Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	30	4" Asphalt 12" tan/ gray SAND and SILT with mixed gravel	0.0	Encountered Groundwater at 3ft
	2	2.5'-5'		14" brown SAND and P-gravel (fill)	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log	**Sheet** 1 of 1	***Date started:*** 6-29-2018 ***Date Completed:*** 6-29-2018	**BORING No.**	**B-4**
Project: DOT Marlborough Facility ***Location:*** 64 South Main Street, Marlborough, CT			***Method of investigation:*** 2" Direct Push Tooling	
Project No.: 17-141-04E ***P. Manager:*** Scott Feulner	***Drilling Co.:*** Ground H2O ***Geologist:*** Dave Seitlinger	***Driller:*** Marques ***D. Helper:***	***Drill Rig:*** AMS Power Probe 9520VTR	***Weather:*** Clear, 85°F

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	40	5" Asphalt 15" tan/ gray SAND and gravel (fill)	0.0	Encountered Groundwater at 4ft
	2	2.5'-5'		20" light brown SILT with clay	0.0	
5-10	3	5'-7.5'	50	10" light brown/ gray SAND and SILT	0.0	
	4	7.5'-10'		30" of brown SILTt w/ 3" section of peppered colored sand 7" brown SILT and SAND	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log | **Sheet** 1 of 1 | ***Date started:*** 6-29-2018 | ***Date Completed:*** 6-29-2018 | **BORING No. B-5**

Project: DOT Marlborough Facility
Location: 64 South Main Street, Marlborough, CT
Method of investigation: 2" Direct Push Tooling

Project No.: 17-141-04E
P. Manager: Scott Feulner
Drilling Co.: Ground H2O
Geologist: Dave Seitlinger
Driller: Marques
D. Helper:
Drill Rig: AMS Power Probe 9520VTR
Weather: Clear, 85°F

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	48	4" Asphalt		Encountered Groundwater at 4ft
				brown/ gray SILT	0.0	
	2	2.5'-5'		SAA	0.0	
5-10	3	5'-7.5'	60	60" brown SAND and silt with mixed gravel	0.0	
	4	7.5'-10'			0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log

Sheet 1 of 1

Date started: 6-29-2018

Date Completed: 6-29-2018

BORING No. B-6

Project: DOT Marlborough Facility

Location: 64 South Main Street, Marlborough, CT

Method of investigation: 2" Direct Push Tooling

Project No.: 17-141-04E

P. Manager: Scott Feulner

Drilling Co.: Ground H2O

Geologist: Dave Seitlinger

Driller: Marques

D. Helper:

Drill Rig: AMS Power Probe 9520VTR

Weather: Clear, 85°F

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	40	4" Asphalt		Encountered Groundwater at 4ft
				10" dark gray/ black SILT (Fuel odor)	4.0	
	2	2.5'-5'		26" gray/ brown SILT with gravel	0.0	
5-10	3	5'-7.5'	48	24" light brown SILT	0.0	
	4	7.5'-10'		brown/ gray SILT with gravel *8ft Refusal*	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log	**Sheet** 1 of 1	***Date started:*** 6-29-2018 ***Date Completed:*** 6-29-2018	**BORING No.**	**B-7**
Project: DOT Marlborough Facility ***Location:*** 64 South Main Street, Marlborough, CT			***Method of investigation:*** 2" Direct Push Tooling	
Drilling Co.: Ground H2O		***Driller:*** Marques	***Drill Rig:*** AMS Power Probe 9520VTR	***Weather:*** Clear, 85°F
P. Manager: Scott Feulner		***Geologist:*** Dave Seitlinger	***D. Helper:***	

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	42	6" Asphalt		Encountered Groundwater at 4ft
				12" light tan/ gray SAND and SILT	0.0	
	2	2.5'-5'		26" gray SILT (Light fuel odor)	0.0	
5-10	3	5'-7.5'	44	8" brown SAND and gravel	0.0	
	4	7.5'-10'		36" brown SAND and SILT (Light fuel odor)	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log	Sheet 1 of 1	*Date started:* 6-29-2018 *Date Completed:* 6-29-2018	**BORING No. B-8**
Project: DOT Marlborough Facility ***Location:*** 64 South Main Street, Marlborough, CT			***Method of investigation:*** 2" Direct Push Tooling

Project No.: 17-141-04E	***Drilling Co.:*** Ground H2O	***Driller:*** Marques	***Drill Rig:*** AMS Power Probe 9520VTR	***Weather:*** Clear, 85°F
P. Manager: Scott Feulner	***Geologist:*** Dave Seitlinger	***D. Helper:***		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'			38	8" Asphalt		Encountered Groundwater at 4ft
	1	0'-2.5'		15" brown SAND and SILT	0.0	
	2	2.5'-5'		15" light brown SAND	0.0	
5-10	3	5'-7.5'	50	16" light brown/ gray SAND and SILT	0.0	
	4	7.5'-10'		34" brown SILT with clay	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log	**Sheet** 1 of 1	***Date started:*** 6-29-2018 ***Date Completed:*** 6-29-2018	**BORING No.** **B-9**	
Project: DOT Marlborough Facility ***Location:*** 64 South Main Street, Marlborough, CT			***Method of investigation:*** 2" Direct Push Tooling	
Drilling Co.: Ground H2O		***Driller:*** Marques	***Drill Rig:*** AMS Power Probe 9520VTR	***Weather:*** Clear, 85°F
P. Manager: Scott Feulner		***Geologist:*** Dave Seitlinger	***D. Helper:***	

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	38	6" Asphalt		Encountered Groundwater at 5ft
				18" light brown/ gray SAND and SILT	0.0	
	2	2.5'-5'		18" dark gray/ black SILT (Organic odor)	0.0	
5-10	3	5'-7.5'	44	22" dark gray/ black SILT (Organic wetland odor)	0.0	
	4	7.5'-10'		22" light gray/ brown SILT	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log | **Sheet** 1 of 1 | ***Date started:*** 6-29-2018 | ***Date Completed:*** 6-29-2018 | **BORING No. B-10**

Project: DOT Marlborough Facility
Location: 64 South Main Street, Marlborough, CT
Method of investigation: 2" Direct Push Tooling

Project No.: 17-141-04E | ***Drilling Co.:*** Ground H2O | ***Driller:*** Marques | ***Drill Rig:*** AMS Power Probe 9520VTR | ***Weather:*** Clear, 85°F

P. Manager: Scott Feulner | ***Geologist:*** Dave Seitlinger | ***D. Helper:***

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	40	6" Asphalt 6" light brown/ gray SAND and SILT (fill)	0.0	Encountered Groundwater at 5ft
	2	2.5'-5'		28" light brown SAND and SILT	0.0	
5-10	3	5'-7.5'	60	18" light brown SILT, wet 22" gray/ dark brown SILT, wet	0.0	
	4	7.5'-10'		20" light brown SILT, wet	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log	**Sheet** 1 of 1	***Date started:*** 6-29-2018 ***Date Completed:*** 6-29-2018	**BORING No.**	**B-11**
Project: DOT Marlborough Facility ***Location:*** 64 South Main Street, Marlborough, CT			***Method of investigation:*** 2" Direct Push Tooling	
Drilling Co.: Ground H2O		***Driller:*** Marques	***Drill Rig:*** AMS Power Probe 9520VTR	***Weather:*** Clear, 85°F
P. Manager: Scott Feulner		***Geologist:*** Dave Seitlinger	***D. Helper:***	

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
				6" Asphalt		
0'-5'	1	0'-2.5'	40	20" light brown SAND and SILT with gravel	0.0	
	2	2.5'-5'		14" dark gray SILT (Organic wetland odor)	0.0	
5-10	3	5'-7.5'	48	22" dark gray SILT, wet (Light fuel odor)	1.4	Encountered Groundwater at 5ft
	4	7.5'-10'		26" light gray/ tan SAND and SILT, wet	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log	Sheet 1 of 1	*Date started:* 6-29-2018 *Date Completed:* 6-29-2018	**BORING No. B-12**
Project: DOT Marlborough Facility ***Location:*** 64 South Main Street, Marlborough, CT			***Method of investigation:*** 2" Direct Push Tooling

Project No.: 17-141-04E	***Drilling Co.:*** Ground H2O	***Driller:*** Marques	***Drill Rig:*** AMS Power Probe 9520VTR	***Weather:*** Clear, 85°F
P. Manager: Scott Feulner	***Geologist:*** Dave Seitlinger	***D. Helper:***		

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'			40	6" Asphalt		Encountered Groundwater at 5ft
	1	0'-2.5'		16" light tan/ gray SAND and SILT	0.0	
	2	2.5'-5'		18" of dark gray/ black SILT with clay, organics (Organic wetland odor)	0.0	
5-10	3	5'-7.5'	48	18" dark gray/ dark brown SILT, with clay	0.0	
	4	7.5'-10'		30" brown/ tan dense SILT and SAND	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log	**Sheet** 1 of 1	***Date started:*** 6-29-2018 ***Date Completed:*** 6-29-2018	**BORING No.**	**B-13**
Project: DOT Marlborough Facility ***Location:*** 64 South Main Street, Marlborough, CT			***Method of investigation:*** 2" Direct Push Tooling	
Drilling Co.: Ground H2O		***Driller:*** Marques	***Drill Rig:*** AMS Power Probe 9520VTR	***Weather:*** Clear, 85°F
P. Manager: Scott Feulner		***Geologist:*** Dave Seitlinger	***D. Helper:***	

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
0'-5'	1	0'-2.5'	52	4" Asphalt	0.0	Encountered Groundwater at 5ft
				24" tan SAND and SILT	0.0	
	2	2.5'-5'		24" dark brown/ dark gray SAND and SILT (Organic odor)	0.0	
5-10	3	5'-7.5'	48	12" dark brown SILT	0.0	
	4	7.5'-10'		36" dark brown SAND and SILT (Organic odor)	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log

Sheet 1 of 1

Date started: 6-29-2018

Date Completed: 6-29-2018

BORING No. **B-14**

Project: DOT Marlborough Facility

Location: 64 South Main Street, Marlborough, CT

Method of investigation: 2" Direct Push Tooling

Project No.: 17-141-04E

P. Manager: Scott Feulner

Drilling Co.: Ground H2O

Geologist: Dave Seitlinger

Driller: Marques

D. Helper:

Drill Rig: AMS Power Probe 9520VTR

Weather: Clear, 85°F

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
				4" Asphalt		
0'-5'	1	0'-2.5'	38	38" gray/ brown SAND and SILT	0.0	
	2	2.5'-5'			0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

DTC ENGINEER CONSULT MANAGE

DELIVERING PROJECTS WITH INNOVATION & INTEGRITY

Subsurface Log

Sheet 1 of 1

Date started: 6-29-2018

Date Completed: 6-29-2018

BORING No. B-15

Project: DOT Marlborough Facility

Location: 64 South Main Street, Marlborough, CT

Method of investigation: 2" Direct Push Tooling

Project No.: 17-141-04E

P. Manager: Scott Feulner

Drilling Co.: Ground H2O

Geologist: Dave Seitlinger

Driller: Marques

D. Helper:

Drill Rig: AMS Power Probe 9520VTR

Weather: Clear, 85°F

Depth (ft.)	Sample No.	Sample Depth (ft.)	Recovery (in.)	Sample Description	PID Readings (ppm)	Groundwater Observations
				4" Asphalt		
0'-5'	1	0'-2.5'	40	22" gray/ dark brown SAND and SILT	0.0	
	2	2.5'-5'		14" of brown SILT (Organic odor)	0.0	

Notes:
Samples collected with a 5-foot Macro Core
Soil component percentages visually estimated (1-10% = trace, 10-20% = little, 20-35% = some, 35-50% = and)
SAA = Same as Above

APPENDIX B

Soil Analytical Laboratory Reports

Thursday, July 05, 2018

Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Project ID: 17-141-04E
Sample ID#s: CA81518 - CA81538, CA81579

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

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

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

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

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	8:40
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81518

Project ID: 17-141-04E
Client ID: B-1 2.5-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2.30	0.35	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	94		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JA/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	52	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-1 2.5-5`

Phoenix I.D.: CA81518

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	30	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	30	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	300	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	36	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-1 2.5-5`

Phoenix I.D.: CA81518

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	6.0	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	100		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	71		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	9:20
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81519

Project ID: 17-141-04E
Client ID: B-2 2.5-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.81	0.37	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	83		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JA/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.3	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-2 2.5-5`

Phoenix I.D.: CA81519

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	19	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	19	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	190	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.3	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	23	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.6	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	7.6	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.6	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-2 2.5-5`

Phoenix I.D.: CA81519

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.6	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	3.8	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	102		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	51		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	66		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

Project ID: 17-141-04E
Client ID: B-2 2.5-5`

Phoenix I.D.: CA81519

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	10:15
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81520

Project ID: 17-141-04E
Client ID: B-4 5-7.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1.79	0.38	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	90		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JA/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	1.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-4 5-7.5`

Phoenix I.D.: CA81520

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	14	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	14	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	140	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	1.7	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	17	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-4 5-7.5`

Phoenix I.D.: CA81520

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	2.9	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	57		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	69		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	10:45
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81521

Project ID: 17-141-04E
Client ID: B-5 5-7.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1.32	0.33	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	90		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-5 5-7.5`

Phoenix I.D.: CA81521

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	27	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	27	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	270	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	32	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-5 5-7.5`

Phoenix I.D.: CA81521

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	5.4	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	73		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	71		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	10:50
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81522

Project ID: 17-141-04E
Client ID: B-5 7.5-10`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1.51	0.37	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	89		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-5 7.5-10`

Phoenix I.D.: CA81522

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-5 7.5-10`

Phoenix I.D.: CA81522

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	77		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	72		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	76		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	11:15
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81523

Project ID: 17-141-04E
Client ID: B-6 0-2.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1.87	0.33	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	90		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-6 0-2.5`

Phoenix I.D.: CA81523

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	35	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	35	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	350	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	42	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	14	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	7.1	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	79		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	74		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	70		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	11:20
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81524

Project ID: 17-141-04E
Client ID: B-6 5-7.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1.19	0.34	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	88		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-6 5-7.5

Phoenix I.D.: CA81524

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	21	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	21	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	210	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	25	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.4	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	8.4	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.4	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-6 5-7.5

Phoenix I.D.: CA81524

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.4	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	4.2	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	69		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	74		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	11:40
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81525

Project ID: 17-141-04E
Client ID: B-7 2.5-7.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	9.32	0.37	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	87		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-7 2.5-7.5`

Phoenix I.D.: CA81525

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	18	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	18	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	180	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.1	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	21	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	66		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	69		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

Project ID: 17-141-04E
Client ID: B-7 2.5-7.5`

Phoenix I.D.: CA81525

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	11:45
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81526

Project ID: 17-141-04E
Client ID: B-7 5-7.5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	14.4	0.35	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	87		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-7 5-7.5

Phoenix I.D.: CA81526

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	32	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	32	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	320	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.9	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	39	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	13	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-7 5-7.5

Phoenix I.D.: CA81526

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	6.4	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	89		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	99		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	68		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	71		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	12:10
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81527

Project ID: 17-141-04E
Client ID: B-8 2.5-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2.34	0.37	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	88		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-8 2.5-5`

Phoenix I.D.: CA81527

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	18	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	18	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	180	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	22	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.3	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	7.3	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.3	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-8 2.5-5`

Phoenix I.D.: CA81527

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.3	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	99		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	66		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	74		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

Project ID: 17-141-04E
Client ID: B-8 2.5-5`

Phoenix I.D.: CA81527

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	12:15
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81528

Project ID: 17-141-04E
Client ID: B-8 5-7.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	2.00	0.34	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	86		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-8 5-7.5`

Phoenix I.D.: CA81528

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	31	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	31	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	310	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.7	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	37	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	6.2	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	100		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	51		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	69		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	12:35
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81529

Project ID: 17-141-04E
Client ID: B-9 2.5-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	9.96	0.41	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	77		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C

Ver 1

Project ID: 17-141-04E
Client ID: B-9 2.5-5`

Phoenix I.D.: CA81529

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-9 2.5-5`

Phoenix I.D.: CA81529

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	49		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	62		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	12:55
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81530

Project ID: 17-141-04E
Client ID: B-11 5-7.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	4.74	0.44	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	77		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	65	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	89	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-11 5-7.5`

Phoenix I.D.: CA81530

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	23	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	29	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	29	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	290	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	6.5	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	49	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	35	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	20	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	11	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	6.0	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	8.3	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	55.0	5.8	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-11 5-7.5`

Phoenix I.D.: CA81530

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	5.8	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	300	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	31		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	63		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	13:15
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81531

Project ID: 17-141-04E
Client ID: B-12 2.5-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7.49	0.38	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	87		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	600	350	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-12 2.5-5`

Phoenix I.D.: CA81531

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	210	140	ug/Kg	50	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
2-Hexanone	ND	26	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	260	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.1	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	7.7	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	200	ug/Kg	50	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
m&p-Xylene	290	280	ug/Kg	50	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	33	31	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	210	140	ug/Kg	50	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
o-Xylene	7.5	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
Styrene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	350	ug/Kg	50	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	297.5	5.2	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-12 2.5-5`

Phoenix I.D.: CA81531

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	700	ug/Kg	50	06/30/18	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	50	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	98		%	50	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	94		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	65		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	13:20
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81532

Project ID: 17-141-04E
Client ID: B-12 5-7.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	3.63	0.37	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	82		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-12 5-7.5`

Phoenix I.D.: CA81532

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
2-Hexanone	ND	28	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	28	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	280	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
Bromochloromethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	45	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	200	ug/Kg	50	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
m&p-Xylene	350	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	57	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	11	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
o-Xylene	40	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
Styrene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	320	ug/Kg	50	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	390.0	5.7	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-12 5-7.5`

Phoenix I.D.: CA81532

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C	
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C	
trans-1,4-dichloro-2-butene	ND	630	ug/Kg	50	06/30/18	JLI	SW8260C	
Trichloroethene	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C	
Trichlorofluoromethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C	
Trichlorotrifluoroethane	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C	
Vinyl chloride	ND	5.7	ug/Kg	1	06/30/18	JLI	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	98		%	50	06/30/18	JLI	70 - 130 %	
% Bromofluorobenzene	97		%	50	06/30/18	JLI	70 - 130 %	
% Dibromofluoromethane	96		%	1	06/30/18	JLI	70 - 130 %	
% Toluene-d8	96		%	1	06/30/18	JLI	70 - 130 %	
Polynuclear Aromatic HC								
2-Methylnaphthalene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Acenaphthene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Acenaphthylene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Anthracene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Benz(a)anthracene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Benzo(a)pyrene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Chrysene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Fluoranthene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Fluorene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Naphthalene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Phenanthrene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
Pyrene	ND	280	ug/Kg	1	07/01/18	DD	SW8270D	
QA/QC Surrogates								
% 2-Fluorobiphenyl	50		%	1	07/01/18	DD	30 - 130 %	
% Nitrobenzene-d5	19		%	1	07/01/18	DD	30 - 130 %	3
% Terphenyl-d14	67		%	1	07/01/18	DD	30 - 130 %	
Field Extraction	Completed				06/29/18		SW5035A	

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

3 = This parameter exceeds laboratory specified limits.

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

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

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

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

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

Phyllis Shiller, Laboratory Director

July 05, 2018

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	13:40
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81533

Project ID: 17-141-04E
Client ID: B-13 2.5-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	8.99	0.35	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	84		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	58	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-13 2.5-5`

Phoenix I.D.: CA81533

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	18	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	18	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	180	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.1	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	21	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.0	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	3.5	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	100		%	1	06/30/18	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	52		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	58		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

Project ID: 17-141-04E
Client ID: B-13 2.5-5`

Phoenix I.D.: CA81533

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	13:45
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81534

Project ID: 17-141-04E
Client ID: B-13 5-7.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.10	0.40	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	88		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	360	110	mg/Kg	2	07/02/18	JRB	CTETPH 8015D
Identification	**		mg/Kg	2	07/02/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	2	07/02/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C

Ver 1

Project ID: 17-141-04E
Client ID: B-13 5-7.5`

Phoenix I.D.: CA81534

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	20	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	20	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	200	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.5	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	25	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.2	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	8.2	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.2	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-13 5-7.5`

Phoenix I.D.: CA81534

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.2	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	4.1	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	280	260	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	890	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	1000	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	1000	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	570	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	610	260	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	790	260	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	1800	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	620	260	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	880	260	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	1600	260	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	38		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	58		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

Project ID: 17-141-04E
Client ID: B-13 5-7.5`

Phoenix I.D.: CA81534

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C20 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	9:40
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81535

Project ID: 17-141-04E
Client ID: B-14 0-2.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	5.58	0.34	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	88		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	56	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	58		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.1	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-14 0-2.5`

Phoenix I.D.: CA81535

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	18	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	18	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	180	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.1	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	21	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	7.2	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	7.2	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	7.2	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-14 0-2.5`

Phoenix I.D.: CA81535

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	7.2	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	3.6	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	86		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	85		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	59		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

Project ID: 17-141-04E
Client ID: B-14 0-2.5`

Phoenix I.D.: CA81535

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	9:45
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81536

Project ID: 17-141-04E
Client ID: B-15 0-2.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	4.36	0.40	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	90		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	55	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-15 0-2.5`

Phoenix I.D.: CA81536

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	20	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	20	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	200	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.4	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	24	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	8.0	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	8.0	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	8.0	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-15 0-2.5`

Phoenix I.D.: CA81536

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	8.0	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	4.0	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	85		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	61		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

Project ID: 17-141-04E
Client ID: B-15 0-2.5`

Phoenix I.D.: CA81536

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81537

Project ID: 17-141-04E
Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
2-Hexanone	ND	25	ug/Kg	1	06/29/18	JLI	SW8260C
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/29/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: TRIP BLANK LL

Phoenix I.D.: CA81537

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	06/29/18	JLI	SW8260C
Acrylonitrile	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Benzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Bromobenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Bromochloromethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Bromodichloromethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Bromoform	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Bromomethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Carbon Disulfide	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Chlorobenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Chloroethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Chloroform	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Chloromethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Dibromochloromethane	ND	3.0	ug/Kg	1	06/29/18	JLI	SW8260C
Dibromomethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Ethylbenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Isopropylbenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
m&p-Xylene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/29/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/29/18	JLI	SW8260C
Methylene chloride	ND	10	ug/Kg	1	06/29/18	JLI	SW8260C
Naphthalene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
n-Butylbenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
n-Propylbenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
o-Xylene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Styrene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Tetrachloroethene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/29/18	JLI	SW8260C
Toluene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Total Xylenes	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/29/18	JLI	SW8260C
Trichloroethene	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
Vinyl chloride	ND	5.0	ug/Kg	1	06/29/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	06/29/18	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	06/29/18	JLI	70 - 130 %
% Dibromofluoromethane	92		%	1	06/29/18	JLI	70 - 130 %

Project ID: 17-141-04E
Client ID: TRIP BLANK LL

Phoenix I.D.: CA81537

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101		%	1	06/29/18	JLI	70 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

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

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

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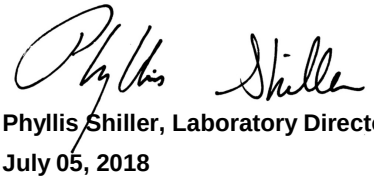

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	9:25
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81538

Project ID: 17-141-04E
Client ID: B-2 5-7.5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1.38	0.38	mg/Kg	1	07/02/18	MA	SW6010C
Percent Solid	90		%		06/29/18	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				06/29/18	JJ/CK	SW3545A
Extraction of CT ETPH	Completed				06/29/18	AA/CK	SW3545A
Total Metals Digest	Completed				06/29/18	L/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	06/30/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/30/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	06/30/18	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	2.0	ug/Kg	1	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-2 5-7.5`

Phoenix I.D.: CA81538

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloropropane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
2-Hexanone	ND	17	ug/Kg	1	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	17	ug/Kg	1	06/30/18	JLI	SW8260C
Acetone	ND	170	ug/Kg	1	06/30/18	JLI	SW8260C
Acrylonitrile	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Benzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromobenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromochloromethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromoform	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Bromomethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chlorobenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloroform	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Chloromethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	2.0	ug/Kg	1	06/30/18	JLI	SW8260C
Dibromomethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Ethylbenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
m&p-Xylene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	20	ug/Kg	1	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	6.8	ug/Kg	1	06/30/18	JLI	SW8260C
Methylene chloride	ND	6.8	ug/Kg	1	06/30/18	JLI	SW8260C
Naphthalene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
o-Xylene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Styrene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	6.8	ug/Kg	1	06/30/18	JLI	SW8260C
Toluene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Total Xylenes	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: B-2 5-7.5`

Phoenix I.D.: CA81538

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,2-Dichloroethene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	6.8	ug/Kg	1	06/30/18	JLI	SW8260C
Trichloroethene	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
Vinyl chloride	ND	3.4	ug/Kg	1	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	1	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	91		%	1	06/30/18	JLI	70 - 130 %
% Toluene-d8	86		%	1	06/30/18	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	07/01/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	07/01/18	DD	30 - 130 %
% Nitrobenzene-d5	70		%	1	07/01/18	DD	30 - 130 %
% Terphenyl-d14	81		%	1	07/01/18	DD	30 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

Project ID: 17-141-04E
Client ID: B-2 5-7.5`

Phoenix I.D.: CA81538

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

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

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 05, 2018

FOR: Attn: Scott Feulner
Diversified Tech. Consultants
2321 Whitney Avenue 3rd floor
Hamden Center II
Hamden CT 06518

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/29/18	
Location Code:	DTECHDAS	Received by:	CP	06/29/18	14:28
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCA81518
Phoenix ID: CA81579

Project ID: 17-141-04E
Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,1-Dichloroethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,1-Dichloroethene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,1-Dichloropropene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dibromoethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dichloroethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,2-Dichloropropane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,3-Dichloropropane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
2,2-Dichloropropane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
2-Chlorotoluene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
2-Hexanone	ND	1300	ug/Kg	50	06/30/18	JLI	SW8260C
2-Isopropyltoluene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
4-Chlorotoluene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/30/18	JLI	SW8260C

Project ID: 17-141-04E
Client ID: TRIP BLANK HL

Phoenix I.D.: CA81579

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	06/30/18	JLI	SW8260C
Acrylonitrile	ND	500	ug/Kg	50	06/30/18	JLI	SW8260C
Benzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Bromobenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Bromochloromethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Bromodichloromethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Bromoform	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Bromomethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Carbon Disulfide	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Carbon tetrachloride	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Chlorobenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Chloroethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Chloroform	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Chloromethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Dibromochloromethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Dibromomethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Ethylbenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Hexachlorobutadiene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Isopropylbenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
m&p-Xylene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/30/18	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Methylene chloride	ND	500	ug/Kg	50	06/30/18	JLI	SW8260C
Naphthalene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
n-Butylbenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
n-Propylbenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
o-Xylene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
p-Isopropyltoluene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
sec-Butylbenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Styrene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
tert-Butylbenzene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Tetrachloroethene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/30/18	JLI	SW8260C
Toluene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Total Xylenes	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/30/18	JLI	SW8260C
Trichloroethene	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Trichlorofluoromethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
Vinyl chloride	ND	250	ug/Kg	50	06/30/18	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	06/30/18	JLI	70 - 130 %
% Bromofluorobenzene	98		%	50	06/30/18	JLI	70 - 130 %
% Dibromofluoromethane	94		%	50	06/30/18	JLI	70 - 130 %

Project ID: 17-141-04E
Client ID: TRIP BLANK HL

Phoenix I.D.: CA81579

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101		%	50	06/30/18	JLI	70 - 130 %
Field Extraction	Completed				06/29/18		SW5035A

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

Comments:

TRIP BLANK INCLUDED.

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

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

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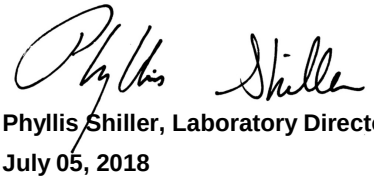

Phyllis Shiller, Laboratory Director
July 05, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

QA/QC Report

July 05, 2018

QA/QC Data

SDG I.D.: GCA81518

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 436880 (mg/kg), QC Sample No: CA70264 (CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81525, CA81526, CA81527, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533, CA81534)														
ICP Metals - Soil														
Lead	BRL	0.33	42.4	31.8	28.6	98.3			94.0			75 - 125	30	
QA/QC Batch 436881 (mg/kg), QC Sample No: CA81167 (CA81535, CA81536, CA81538)														
ICP Metals - Soil														
Lead	BRL	0.31	5.88	10.3	54.6	86.9			87.5			75 - 125	30	r

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

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

QA/QC Report

July 05, 2018

QA/QC Data

SDG I.D.: GCA81518

QA/QC Batch 437041 (ug/kg), QC Sample No: CA81520 (CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81527, CA81531 (50X) , CA81532 (50X) , CA81534, CA81537, CA81579 (50X))

Volatiles - Soil

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1,2-Tetrachloroethane	ND	5.0	102	101	1.0	98	99	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	102	101	1.0	103	103	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	102	102	0.0	100	101	1.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	99	97	2.0	94	95	1.1	70 - 130	30
1,1-Dichloroethane	ND	5.0	106	117	9.9	119	119	0.0	70 - 130	30
1,1-Dichloroethene	ND	5.0	103	101	2.0	98	100	2.0	70 - 130	30
1,1-Dichloropropene	ND	5.0	104	103	1.0	105	104	1.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	102	102	0.0	78	75	3.9	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	98	98	0.0	97	97	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	111	107	3.7	81	79	2.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	106	105	0.9	100	100	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	94	98	4.2	90	92	2.2	70 - 130	30
1,2-Dibromoethane	ND	5.0	99	99	0.0	97	97	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	104	102	1.9	95	95	0.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	97	96	1.0	94	93	1.1	70 - 130	30
1,2-Dichloropropane	ND	5.0	96	95	1.0	96	96	0.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	106	105	0.9	102	103	1.0	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	106	102	3.8	95	95	0.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	99	96	3.1	97	97	0.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	106	103	2.9	95	95	0.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	104	103	1.0	99	99	0.0	70 - 130	30
2-Chlorotoluene	ND	5.0	104	102	1.9	100	101	1.0	70 - 130	30
2-Hexanone	ND	25	77	79	2.6	74	72	2.7	70 - 130	30
2-Isopropyltoluene	ND	5.0	100	99	1.0	96	96	0.0	70 - 130	30
4-Chlorotoluene	ND	5.0	106	103	2.9	99	99	0.0	70 - 130	30
4-Methyl-2-pentanone	ND	25	82	82	0.0	83	82	1.2	70 - 130	30
Acetone	ND	10	66	64	3.1	86	75	13.7	70 - 130	30
Acrylonitrile	ND	5.0	95	96	1.0	95	93	2.1	70 - 130	30
Benzene	ND	1.0	100	100	0.0	101	100	1.0	70 - 130	30
Bromobenzene	ND	5.0	102	101	1.0	98	99	1.0	70 - 130	30
Bromochloromethane	ND	5.0	105	104	1.0	101	102	1.0	70 - 130	30
Bromodichloromethane	ND	5.0	98	97	1.0	94	95	1.1	70 - 130	30
Bromoform	ND	5.0	96	96	0.0	87	87	0.0	70 - 130	30
Bromomethane	ND	5.0	113	107	5.5	118	115	2.6	70 - 130	30
Carbon Disulfide	ND	5.0	101	101	0.0	95	97	2.1	70 - 130	30
Carbon tetrachloride	ND	5.0	99	99	0.0	100	100	0.0	70 - 130	30
Chlorobenzene	ND	5.0	103	103	0.0	101	101	0.0	70 - 130	30
Chloroethane	ND	5.0	99	95	4.1	102	102	0.0	70 - 130	30
Chloroform	ND	5.0	101	100	1.0	101	101	0.0	70 - 130	30
Chloromethane	ND	5.0	83	82	1.2	84	84	0.0	70 - 130	30

QA/QC Data

SDG I.D.: GCA81518

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,2-Dichloroethene	ND	5.0	102	103	1.0	103	103	0.0	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	99	97	2.0	92	91	1.1	70 - 130	30
Dibromochloromethane	ND	3.0	105	102	2.9	97	98	1.0	70 - 130	30
Dibromomethane	ND	5.0	97	96	1.0	94	95	1.1	70 - 130	30
Dichlorodifluoromethane	ND	5.0	91	90	1.1	89	88	1.1	70 - 130	30
Ethylbenzene	ND	1.0	104	103	1.0	103	102	1.0	70 - 130	30
Hexachlorobutadiene	ND	5.0	104	104	0.0	79	77	2.6	70 - 130	30
Isopropylbenzene	ND	1.0	103	102	1.0	103	102	1.0	70 - 130	30
m&p-Xylene	ND	2.0	106	105	0.9	104	103	1.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	82	84	2.4	84	83	1.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	99	96	3.1	87	93	6.7	70 - 130	30
Methylene chloride	ND	5.0	93	89	4.4	84	86	2.4	70 - 130	30
Naphthalene	ND	5.0	101	101	0.0	88	87	1.1	70 - 130	30
n-Butylbenzene	ND	1.0	112	111	0.9	100	99	1.0	70 - 130	30
n-Propylbenzene	ND	1.0	106	105	0.9	103	102	1.0	70 - 130	30
o-Xylene	ND	2.0	101	100	1.0	99	98	1.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	108	108	0.0	102	101	1.0	70 - 130	30
sec-Butylbenzene	ND	1.0	110	109	0.9	107	106	0.9	70 - 130	30
Styrene	ND	5.0	102	101	1.0	92	88	4.4	70 - 130	30
tert-Butylbenzene	ND	1.0	102	102	0.0	102	101	1.0	70 - 130	30
Tetrachloroethene	ND	5.0	104	104	0.0	102	100	2.0	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	86	88	2.3	90	89	1.1	70 - 130	30
Toluene	ND	1.0	102	100	2.0	101	100	1.0	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	103	100	3.0	91	96	5.3	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	97	95	2.1	89	89	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	97	97	0.0	87	88	1.1	70 - 130	30
Trichloroethene	ND	5.0	106	106	0.0	108	106	1.9	70 - 130	30
Trichlorofluoromethane	ND	5.0	102	101	1.0	104	104	0.0	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	103	102	1.0	101	102	1.0	70 - 130	30
Vinyl chloride	ND	5.0	92	92	0.0	95	93	2.1	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	101	100	1.0	99	99	0.0	70 - 130	30
% Bromofluorobenzene	97	%	97	96	1.0	96	96	0.0	70 - 130	30
% Dibromofluoromethane	94	%	98	99	1.0	95	97	2.1	70 - 130	30
% Toluene-d8	100	%	100	99	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%.

QA/QC Batch 436847 (mg/Kg), QC Sample No: CA81522 (CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81525, CA81526, CA81527, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533, CA81534, CA81535, CA81536, CA81538)

TPH by GC (Extractable Products) - Soil

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Ext. Petroleum H.C. (C9-C36)	ND	50	88	67	27.1	83	80	3.7	60 - 120	30
% n-Pentacosane	57	%	81	65	21.9	71	79	10.7	50 - 150	30

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 436837 (ug/kg), QC Sample No: CA81522 (CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81525, CA81526, CA81527, CA81528, CA81529, CA81530, CA81531, CA81532)

Semivolatiles - Soil

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Methylnaphthalene	ND	230	61	65	6.3	68	71	4.3	30 - 130	30
Acenaphthene	ND	230	69	69	0.0	69	69	0.0	30 - 130	30
Acenaphthylene	ND	130	62	63	1.6	63	62	1.6	30 - 130	30
Anthracene	ND	230	75	75	0.0	73	75	2.7	30 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benz(a)anthracene	ND	230	75	74	1.3	72	72	0.0	30 - 130	30	
Benzo(a)pyrene	ND	130	73	72	1.4	69	69	0.0	30 - 130	30	
Benzo(b)fluoranthene	ND	160	75	75	0.0	71	75	5.5	30 - 130	30	
Benzo(ghi)perylene	ND	230	75	74	1.3	70	70	0.0	30 - 130	30	
Benzo(k)fluoranthene	ND	230	74	73	1.4	72	68	5.7	30 - 130	30	
Chrysene	ND	230	76	75	1.3	72	72	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	78	76	2.6	72	73	1.4	30 - 130	30	
Fluoranthene	ND	230	75	75	0.0	71	73	2.8	30 - 130	30	
Fluorene	ND	230	69	69	0.0	68	69	1.5	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	78	76	2.6	72	72	0.0	30 - 130	30	
Naphthalene	ND	230	62	67	7.8	71	74	4.1	30 - 130	30	
Phenanthrene	ND	130	75	74	1.3	71	73	2.8	30 - 130	30	
Pyrene	ND	230	74	74	0.0	71	73	2.8	30 - 130	30	
% 2-Fluorobiphenyl	74	%	67	67	0.0	70	69	1.4	30 - 130	30	
% Nitrobenzene-d5	63	%	62	63	1.6	67	69	2.9	30 - 130	30	
% Terphenyl-d14	76	%	76	75	1.3	76	75	1.3	30 - 130	30	

Comment:

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

QA/QC Batch 437040 (ug/kg), QC Sample No: CA81525 (CA81525, CA81526, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	105	103	1.9	104	101	2.9	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	108	105	2.8	107	107	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	107	0.9	109	109	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	100	101	1.0	100	101	1.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	124	103	18.5	103	124	18.5	70 - 130	30	
1,1-Dichloroethene	ND	5.0	106	110	3.7	110	107	2.8	70 - 130	30	
1,1-Dichloropropene	ND	5.0	107	106	0.9	108	109	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	102	104	1.9	84	83	1.2	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	103	105	1.9	108	107	0.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	109	110	0.9	91	89	2.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	108	106	1.9	109	109	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	97	101	4.0	98	93	5.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	102	102	0.0	102	99	3.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	105	104	1.0	103	102	1.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	99	100	1.0	100	101	1.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	100	99	1.0	100	101	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	108	107	0.9	111	111	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	106	104	1.9	105	104	1.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	101	101	0.0	102	102	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	106	105	0.9	104	104	0.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	108	106	1.9	104	103	1.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	106	104	1.9	108	109	0.9	70 - 130	30	
2-Hexanone	ND	25	82	84	2.4	83	83	0.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	103	101	2.0	103	104	1.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	106	105	0.9	109	108	0.9	70 - 130	30	
4-Methyl-2-pentanone	ND	25	86	89	3.4	88	88	0.0	70 - 130	30	
Acetone	ND	10	72	78	8.0	163	152	7.0	70 - 130	30	m
Acrylonitrile	ND	5.0	100	87	13.9	95	97	2.1	70 - 130	30	
Benzene	ND	1.0	104	103	1.0	104	105	1.0	70 - 130	30	
Bromobenzene	ND	5.0	104	103	1.0	106	106	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCA81518

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromochloromethane	ND	5.0	108	109	0.9	108	106	1.9	70 - 130	30	
Bromodichloromethane	ND	5.0	100	100	0.0	99	89	10.6	70 - 130	30	
Bromoform	ND	5.0	97	97	0.0	92	68	30.0	70 - 130	30	m
Bromomethane	ND	5.0	121	116	4.2	125	121	3.3	70 - 130	30	
Carbon Disulfide	ND	5.0	105	109	3.7	107	99	7.8	70 - 130	30	
Carbon tetrachloride	ND	5.0	105	104	1.0	104	100	3.9	70 - 130	30	
Chlorobenzene	ND	5.0	106	105	0.9	107	106	0.9	70 - 130	30	
Chloroethane	ND	5.0	107	102	4.8	109	109	0.0	70 - 130	30	
Chloroform	ND	5.0	106	105	0.9	107	107	0.0	70 - 130	30	
Chloromethane	ND	5.0	88	86	2.3	83	68	19.9	70 - 130	30	m
cis-1,2-Dichloroethene	ND	5.0	109	108	0.9	109	107	1.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	100	100	0.0	96	86	11.0	70 - 130	30	
Dibromochloromethane	ND	3.0	106	105	0.9	104	85	20.1	70 - 130	30	
Dibromomethane	ND	5.0	99	100	1.0	99	101	2.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	89	87	2.3	84	83	1.2	70 - 130	30	
Ethylbenzene	ND	1.0	107	105	1.9	108	108	0.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	106	103	2.9	81	81	0.0	70 - 130	30	
Isopropylbenzene	ND	1.0	107	105	1.9	110	111	0.9	70 - 130	30	
m&p-Xylene	ND	2.0	109	107	1.9	110	110	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	86	90	4.5	106	103	2.9	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	102	106	3.8	105	102	2.9	70 - 130	30	
Methylene chloride	ND	5.0	96	99	3.1	118	115	2.6	70 - 130	30	
Naphthalene	ND	5.0	102	106	3.8	93	91	2.2	70 - 130	30	
n-Butylbenzene	ND	1.0	115	113	1.8	108	108	0.0	70 - 130	30	
n-Propylbenzene	ND	1.0	109	107	1.9	110	111	0.9	70 - 130	30	
o-Xylene	ND	2.0	105	102	2.9	105	104	1.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	111	109	1.8	110	110	0.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	113	110	2.7	112	113	0.9	70 - 130	30	
Styrene	ND	5.0	105	104	1.0	102	100	2.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	105	103	1.9	107	108	0.9	70 - 130	30	
Tetrachloroethene	ND	5.0	105	104	1.0	106	106	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	94	97	3.1	94	93	1.1	70 - 130	30	
Toluene	ND	1.0	105	104	1.0	105	105	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	107	111	3.7	110	105	4.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	97	98	1.0	93	83	11.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	98	101	3.0	87	63	32.0	70 - 130	30	m,r
Trichloroethene	ND	5.0	110	109	0.9	111	109	1.8	70 - 130	30	
Trichlorofluoromethane	ND	5.0	108	108	0.0	110	109	0.9	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	106	107	0.9	109	107	1.9	70 - 130	30	
Vinyl chloride	ND	5.0	97	96	1.0	95	93	2.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	97	96	1.0	95	95	0.0	70 - 130	30	
% Dibromofluoromethane	94	%	97	99	2.0	96	96	0.0	70 - 130	30	
% Toluene-d8	101	%	99	100	1.0	99	99	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 436820 (ug/kg), QC Sample No: CA81538 (CA81533, CA81534, CA81535, CA81536, CA81538)

Semivolatiles - Soil

2-Methylnaphthalene	ND	230	64	67	4.6	56	66	16.4	30 - 130	30	
Acenaphthene	ND	230	69	74	7.0	60	64	6.5	30 - 130	30	
Acenaphthylene	ND	130	63	66	4.7	55	60	8.7	30 - 130	30	
Anthracene	ND	230	77	79	2.6	68	72	5.7	30 - 130	30	

QA/QC Data

SDG I.D.: GCA81518

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benz(a)anthracene	ND	230	75	80	6.5	68	71	4.3	30 - 130	30	
Benzo(a)pyrene	ND	130	74	74	0.0	64	67	4.6	30 - 130	30	
Benzo(b)fluoranthene	ND	160	77	81	5.1	68	71	4.3	30 - 130	30	
Benzo(ghi)perylene	ND	230	67	67	0.0	58	60	3.4	30 - 130	30	
Benzo(k)fluoranthene	ND	230	78	81	3.8	70	73	4.2	30 - 130	30	
Chrysene	ND	230	76	82	7.6	68	71	4.3	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	66	67	1.5	59	61	3.3	30 - 130	30	
Fluoranthene	ND	230	78	83	6.2	70	74	5.6	30 - 130	30	
Fluorene	ND	230	72	75	4.1	64	70	9.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	67	68	1.5	60	63	4.9	30 - 130	30	
Naphthalene	ND	230	69	69	0.0	57	66	14.6	30 - 130	30	
Phenanthrene	ND	130	75	77	2.6	65	69	6.0	30 - 130	30	
Pyrene	ND	230	81	86	6.0	70	74	5.6	30 - 130	30	
% 2-Fluorobiphenyl	66	%	66	69	4.4	56	62	10.2	30 - 130	30	
% Nitrobenzene-d5	71	%	74	75	1.3	67	105	44.2	30 - 130	30	r
% Terphenyl-d14	68	%	80	82	2.5	70	75	6.9	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 437046 (ug/kg), QC Sample No: CA81781 (CA81535, CA81536, CA81538)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	90	88	2.2	83	85	2.4	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	89	89	0.0	87	87	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	101	4.8	101	100	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	110	108	1.8	96	99	3.1	70 - 130	30	
1,1-Dichloroethane	ND	5.0	102	103	1.0	108	108	0.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	103	104	1.0	104	104	0.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	105	103	1.9	100	104	3.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	114	109	4.5	103	101	2.0	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	100	94	6.2	90	88	2.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	107	102	4.8	96	93	3.2	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	99	96	3.1	94	92	2.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	95	86	9.9	75	73	2.7	70 - 130	30	
1,2-Dibromoethane	ND	5.0	102	98	4.0	93	93	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	114	108	5.4	104	104	0.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	96	93	3.2	80	81	1.2	70 - 130	30	
1,2-Dichloropropane	ND	5.0	106	106	0.0	107	110	2.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	97	94	3.1	93	90	3.3	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	108	102	5.7	99	97	2.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	99	95	4.1	100	103	3.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	114	111	2.7	106	101	4.8	70 - 130	30	
2,2-Dichloropropane	ND	5.0	83	83	0.0	80	81	1.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	107	103	3.8	102	100	2.0	70 - 130	30	
2-Hexanone	ND	25	81	77	5.1	27	32	16.9	70 - 130	30	m
2-Isopropyltoluene	ND	5.0	99	97	2.0	94	92	2.2	70 - 130	30	
4-Chlorotoluene	ND	5.0	108	102	5.7	100	97	3.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	91	88	3.4	58	61	5.0	70 - 130	30	m
Acetone	ND	10	58	63	8.3	50	49	2.0	70 - 130	30	l,m
Acrylonitrile	ND	5.0	94	89	5.5	41	39	5.0	70 - 130	30	m
Benzene	ND	1.0	108	106	1.9	108	109	0.9	70 - 130	30	
Bromobenzene	ND	5.0	113	110	2.7	106	102	3.8	70 - 130	30	
Bromochloromethane	ND	5.0	99	98	1.0	98	97	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCA81518

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromodichloromethane	ND	5.0	89	87	2.3	72	76	5.4	70 - 130	30	
Bromoform	ND	5.0	71	68	4.3	46	46	0.0	70 - 130	30	l,m
Bromomethane	ND	5.0	92	86	6.7	61	59	3.3	70 - 130	30	m
Carbon Disulfide	ND	5.0	84	84	0.0	77	78	1.3	70 - 130	30	
Carbon tetrachloride	ND	5.0	82	81	1.2	74	76	2.7	70 - 130	30	
Chlorobenzene	ND	5.0	106	104	1.9	94	95	1.1	70 - 130	30	
Chloroethane	ND	5.0	99	98	1.0	99	100	1.0	70 - 130	30	
Chloroform	ND	5.0	92	91	1.1	91	90	1.1	70 - 130	30	
Chloromethane	ND	5.0	102	100	2.0	88	88	0.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	106	107	0.9	112	113	0.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	99	97	2.0	72	75	4.1	70 - 130	30	
Dibromochloromethane	ND	3.0	87	85	2.3	73	74	1.4	70 - 130	30	
Dibromomethane	ND	5.0	110	106	3.7	97	99	2.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	101	98	3.0	70	71	1.4	70 - 130	30	
Ethylbenzene	ND	1.0	102	99	3.0	102	105	2.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	106	102	3.8	93	93	0.0	70 - 130	30	
Isopropylbenzene	ND	1.0	107	103	3.8	103	101	2.0	70 - 130	30	
m&p-Xylene	ND	2.0	97	95	2.1	93	95	2.1	70 - 130	30	
Methyl ethyl ketone	ND	5.0	81	75	7.7	53	55	3.7	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	1.0	81	82	1.2	82	84	2.4	70 - 130	30	
Methylene chloride	ND	5.0	92	92	0.0	94	94	0.0	70 - 130	30	
Naphthalene	ND	5.0	116	110	5.3	105	106	0.9	70 - 130	30	
n-Butylbenzene	ND	1.0	107	104	2.8	101	97	4.0	70 - 130	30	
n-Propylbenzene	ND	1.0	108	104	3.8	102	100	2.0	70 - 130	30	
o-Xylene	ND	2.0	103	100	3.0	93	96	3.2	70 - 130	30	
p-Isopropyltoluene	ND	1.0	104	101	2.9	98	96	2.1	70 - 130	30	
sec-Butylbenzene	ND	1.0	106	102	3.8	102	100	2.0	70 - 130	30	
Styrene	ND	5.0	93	90	3.3	65	67	3.0	70 - 130	30	m
tert-Butylbenzene	ND	1.0	102	99	3.0	96	95	1.0	70 - 130	30	
Tetrachloroethene	ND	5.0	115	114	0.9	100	101	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	88	86	2.3	93	94	1.1	70 - 130	30	
Toluene	ND	1.0	110	106	3.7	99	102	3.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	99	99	0.0	97	99	2.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	82	79	3.7	55	58	5.3	70 - 130	30	m
trans-1,4-dichloro-2-butene	ND	5.0	81	76	6.4	68	66	3.0	70 - 130	30	m
Trichloroethene	ND	5.0	115	110	4.4	105	107	1.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	87	87	0.0	75	76	1.3	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	98	95	3.1	89	91	2.2	70 - 130	30	
Vinyl chloride	ND	5.0	102	99	3.0	91	92	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	93	%	104	101	2.9	101	103	2.0	70 - 130	30	
% Bromofluorobenzene	92	%	93	92	1.1	89	90	1.1	70 - 130	30	
% Dibromofluoromethane	96	%	91	96	5.3	94	94	0.0	70 - 130	30	
% Toluene-d8	87	%	104	103	1.0	100	101	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

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

QA/QC Data

SDG I.D.: GCA81518

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

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

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

Phyllis Shiller, Laboratory Director
July 05, 2018

Thursday, July 05, 2018

Criteria: CT: GAM, GWP, RC, SWP

State: CT

Sample Criteria Exceedances Report

GCA81518 - DTECHDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Diversified Tech. Consultants

Project Location: 17-141-04E ***Project Number:***

Laboratory Sample ID(s): CA81518-CA81538, CA81579 ***Sampling Date(s):*** 6/29/2018

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

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ICP Narration, 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: Rashmi Makol **Position:** Project Manager

Printed Name: Rashmi Makol **Date:** Thursday, July 05, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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

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RCP Certification Report

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SDG I.D.: GCA81518

SDG Comments

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only Lead is reported as requested on the chain of custody.

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

ETPH Narration

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

Instrument:

AU-FID1 06/29/18-1 Jeff Bucko, Chemist 06/29/18

CA81523, CA81524, CA81525, CA81527, CA81528, CA81529, CA81531, CA81532, CA81533, CA81538

The initial calibration (ETPH601I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID1 07/02/18-1 Jeff Bucko, Chemist 07/02/18

CA81534

The initial calibration (ETPH601I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 06/29/18-1 Jeff Bucko, Chemist 06/29/18

CA81518, CA81519, CA81520, CA81521, CA81522

The initial calibration (ETPH525I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 06/29/18-1 Jeff Bucko, Chemist 06/29/18

CA81526, CA81530, CA81535, CA81536

The initial calibration (ETPH509I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 436847 (CA81522)

CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81525, CA81526, CA81527, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533, CA81534, CA81535, CA81536, CA81538

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

ICP Metals Narration

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ICP Metals Narration

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

QC Batch 436881 (Samples: CA81535, CA81536, CA81538): -----

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

Instrument:

ARCOS 07/02/18 08:54 Mike Arsenault, Chemist 07/02/18

CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81525, CA81526, CA81527, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533, CA81534, CA81535, CA81536, CA81538

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 436880 (CA70264)

CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81525, CA81526, CA81527, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533, CA81534

All LCS recoveries were within 75 - 125 with the following exceptions: None.

Batch 436881 (CA81167)

CA81535, CA81536, CA81538

All LCS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

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

QC Batch 436820 (Samples: CA81533, CA81534, CA81535, CA81536, CA81538): -----

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% Nitrobenzene-d5)

Instrument:

CHEM27 07/01/18-1 Matt Richard, Chemist 07/01/18

CA81533, CA81534, CA81535, CA81536, CA81538

Initial Calibration Verification (CHEM27/SPLIT_0615):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

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SVOA Narration

Continuing Calibration Verification (CHEM27/0701_02-SPLIT_0615):
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.

CHEM29 07/01/18-1 Matt Richard, Chemist 07/01/18

CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81525, CA81526, CA81527, CA81528, CA81529, CA81530, CA81531, CA81532

Initial Calibration Verification (CHEM29/SPLIT_0614):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0701_02-SPLIT_0614):
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 (Site Specific):

Batch 436820 (CA81538)

CA81533, CA81534, CA81535, CA81536, CA81538

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: % Nitrobenzene-d5(44.2%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 436837 (CA81522)

CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81525, CA81526, CA81527, CA81528, CA81529, CA81530, CA81531, CA81532

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

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VOA Narration

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

QC Batch 437040 (Samples: CA81525, CA81526, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533): -----

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. (Bromoform, Chloromethane, trans-1,4-dichloro-2-butene)

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. (Acetone)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (trans-1,4-dichloro-2-butene)

QC Batch 437041 (Samples: CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81527, CA81531, CA81532, CA81534, CA81537, CA81579): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (Acetone)

QC Batch 437046 (Samples: CA81535, CA81536, CA81538): -----

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Acetone, Bromoform)

Instrument:

CHEM03 06/29/18-2 Jane Li, Chemist 06/29/18

CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81527, CA81531, CA81532, CA81534, CA81537, CA81579

Initial Calibration Verification (CHEM03/VT-L0628):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 24% (20%), Chloroethane 34% (20%), Trichlorofluoromethane 24% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM03/0629L33-VT-L0628):
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.

CHEM03 06/30/18-1 Jane Li, Chemist 06/30/18

CA81525, CA81526, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533

Initial Calibration Verification (CHEM03/VT-L0628):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 24% (20%), Chloroethane 34% (20%), Trichlorofluoromethane 24% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM03/0630L02-VT-L0628):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

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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 recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM18 06/29/18-2 Jane Li, Chemist 06/29/18

CA81535, CA81536, CA81538

Initial Calibration Verification (CHEM18/VT-M0604A):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2,4-Trichlorobenzene 25% (20%), Acetone 26% (20%), Methyl Ethyl Ketone 26% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/0629M33-VT-M0604A):
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: Acetone 32%L (30%), Bromoform 35%L (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 437046 (CA81781)

CA81535, CA81536, CA81538

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(58%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(63%), Bromoform(68%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 437040 (CA81525)

CA81525, CA81526, CA81528, CA81529, CA81530, CA81531, CA81532, CA81533

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: Acetone(163%)
All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(152%), Bromoform(68%), Chloromethane(68%), trans-1,4-dichloro-2-butene(63%)
All MS/MSD RPDs were less than 30% with the following exceptions: trans-1,4-dichloro-2-butene(32.0%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 437041 (CA81520)

CA81518, CA81519, CA81520, CA81521, CA81522, CA81523, CA81524, CA81527, CA81531, CA81532, CA81534, CA81537, CA81579

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VOA Narration

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(66%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(64%)
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%.

Temperature Narration

The samples were received at 6.0C with cooling initiated.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]
Temp. 0°C Pg 1 of 2

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: ethan.stewart@teamdtc.com

Customer: DTC
Address: 2321 Whitney Ave Hamden CT

Project: 17-141-04E
Report to: Scott Fenlon / Ethan Stewart
Invoice to: DTC DAS Pricing

Project P.O: DAS

This section MUST be completed with Bottle Quantities.

Sampler's Signature: [signature] Date: 6/29/18

Client Sample - Information - Identification

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Total VOCs 8260	SVOCs 8270	ETPH	Total Lead	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] 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 [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
81518	B-1 (2.5-5')	S	6/29/18	8:40	X	X	X	X		3	1									
81519	B-2 (2.5-5')			9:20																
	~~B-3 (2.5-5')~~			10:10	NO SAMPLE (2)															
81520	B-4 (5-7.5')			10:15																
81521	B-5 (5-7.5')			10:45																
81522	B-5 (7.5'-10')			10:50																
81523	B-6 (0-2.5')			11:15																
81524	B-6 (5-7.5')			11:20																
81525	B-7 (2.5-7.5)			11:40																
81526	B-7 (5-7.5')			11:45																
81527	B-8 (2.5-5')			12:10																
81528	B-8 (5-7.5')			12:15																

Relinquished by:	Accepted by:	Date:	Time:
[signature]	TRUM	6/29/18	14:28

Comments, Special Requirements or Regulations:
DAS Pricing

Turnaround:
[X] 1 Day* 24hr
[ ] 2 Days*
[ ] 3 Days*
[ ] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] Direct Exposure (Residential)
[ ] GW
[ ] Other

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

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

State where samples were collected: CT

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

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

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ No ☐
Temp. 6.0 °C Pg 2 of 2

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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Data Delivery:
☐ Fax #:
☒ Email: ethan.stewart@teamdtc.com

Customer: DTC
Address: 2321 Whitney Ave Hamden, CT

Project: 17-141-04E
Report to: Scott Faulman / Ethan Stewart
Invoice to: DTC
Phone #: 203-239-4202
Fax #:

Project P.O: DAS Pricing

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6/29/18

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Tot. VOCs 8260	SVOC 8270	ETPH	Total Lead	Soil VOA Vials [ ]methanol [ ]H2O	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ]250ml [ ]1000ml	PL H2SO4 [ ]250ml [ ]500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria (as is)	Bacteria (w/thio)
81529	B-9 (2.5-5)	S	6/29/18	12 55					3	1								
81530	B-10 (5-7.5')			12 55														
81531	B-12 (2.5-5')			1 15														
81532	B-12 (5-7.5')			1 20														
81533	B-13 (2.5-5)			1 10														
81534	B-13 (5-7.5')			1 45														
81535	B-14 (0-2.5')			9 40														
81536	B-15 (0-2.5')			9 45														
81537	Trip Blank LL				x	x	x	x										
81538	B-2 (5-7.5')	S	6/29/18	9 25														
81579	TB HL																	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	TFDunn	6/29/18	14:28

Comments, Special Requirements or Regulations:
DAS Pricing

Turnaround:
☒ 1 Day* 24hr
☐ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
* SURCHARGE APPLIES

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT
☒ RCP Cert
☒ GW Protection
☒ SW Protection
☒ GA Mobility
☐ GB Mobility
☒ Residential DEC
☐ I/C DEC
☐ Other

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

State where samples were collected: CT

Data Format
☐ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other
* SURCHARGE APPLIES